



THE **A**merican-Standard FAMILY

# THE **AMERICAN-Standard** FAMILY



## **IN THE UNITED STATES:**

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**AIR CONDITIONING DIVISION**

**AMERICAN BLOWER DIVISION**

**AMSTAN SUPPLY DIVISION**

**ATOMIC ENERGY DIVISION**

**C. F. CHURCH DIVISION**

**DETROIT CONTROLS CORPORATION**

**KEWANEE BOILER DIVISION**

**PLUMBING AND HEATING DIVISION**

**ROSS HEAT EXCHANGER DIVISION**

**TONAWANDA IRON DIVISION**

**YOUNGSTOWN KITCHENS DIVISION**

## **IN CANADA:**

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**AMERICAN-STANDARD PRODUCTS (CANADA) LIMITED**

## **IN EUROPE:**

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**IDEAL-STANDARD (FOREIGN DIVISIONS)**

**Serving**  
**Home and**  
**Industry**



This booklet describes the world-wide activities of the divisions and companies which make up American Radiator & Standard Sanitary Corporation—known as American-Standard. This industrial family produces and markets a wide variety of products in the United States, Canada, and Europe.

Original members of the American-Standard Family began operations before the turn of the century when central heating and plumbing were in their infancy. Since then, American-Standard divisions and companies have kept pace with the ever-broadening demands of home and industry.



Through research, development of new products and expansion of facilities, the corporation has grown steadily and today is engaged in a diversity of industrial activities. These include the manufacturing and marketing of products ranging from basic materials to consumer goods.

The American-Standard Family over the years has built a record of industrial pioneering and a reputation for quality and leadership in its field. With a background of sound accomplishment, the corporation looks to the future with its sights set on continued achievement and greater service to users of its products.

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# Air Conditioning Division

## AIR CONDITIONING EQUIPMENT

### SUMMER-RESIDENTIAL

#### ADD-ON UNITS

Air Cooled

Water Cooled

#### UNITS WITH BLOWER

Air Cooled

Water Cooled

### SUMMER-COMMERCIAL

#### PACKAGE TYPE

Water Cooled

### WINTER-RESIDENTIAL

Gas Fired

Oil Fired

Coal Fired

### YEAR 'ROUND-RESIDENTIAL

Gas Fired, Water Cooled

Gas Fired, Air Cooled

Oil Fired, Water Cooled

Oil Fired, Air Cooled

### BLOWER FILTER UNITS

### FURNACES, WARM AIR

### FURNACES, GRAVITY

Year-round air-conditioning has been a natural outgrowth of the continued interest of American-Standard in heating, cooling and air circulation. First a leader in warm air furnaces and later a pioneer in winter air-conditioning, American-Standard through its Air Conditioning Division now provides a complete line of heating, cooling and air filtering units for year-round comfort.

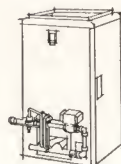
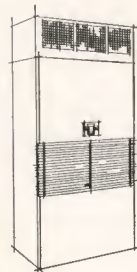
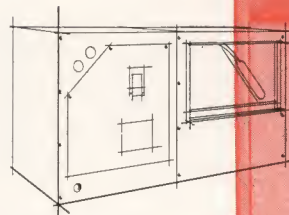
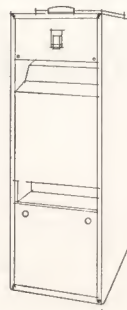
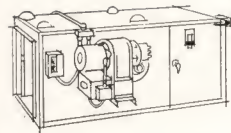
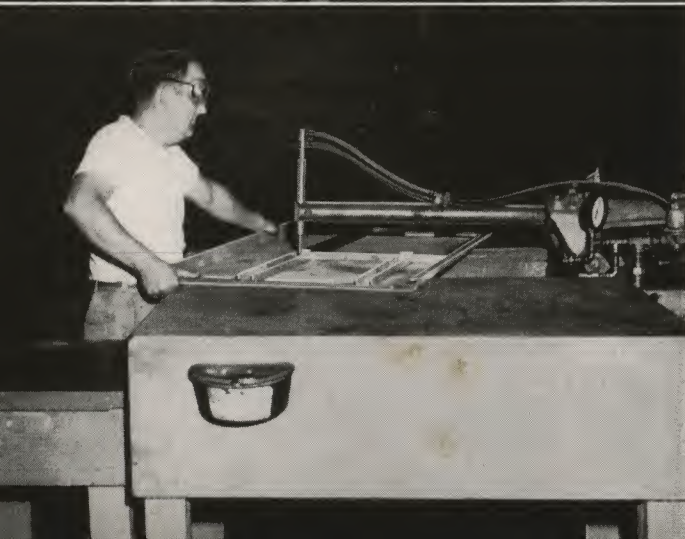
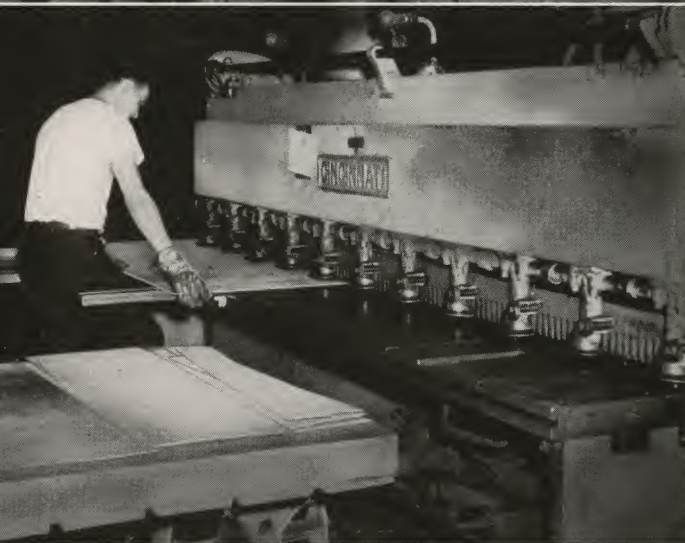
With home air-conditioning in a position reminiscent of central heating at the turn of the century, the Air Conditioning Division has become a leading supplier of equipment for air-conditioning the entire home. Constant emphasis is toward improvement in product design and performance.

One of the few air conditioner manufacturers in the country with facilities for originating basic design, the Division can call on technically-trained specialists in the corporation's research laboratories in Louisville, Ky., for expert guidance.

At its plant in Elyria, Ohio, the Division produces a complete line of residential type warm air heating and air-cooling equipment plus commercial package type summer air conditioners for stores, offices, and other commercial installations. Included in the line are gas, oil, and coal-fired heating units; water and air-cooled summer air conditioners; and combination units for year-round heating and cooling.

The Division's heating and cooling units are sold through heating and air-conditioning retailers throughout the country.

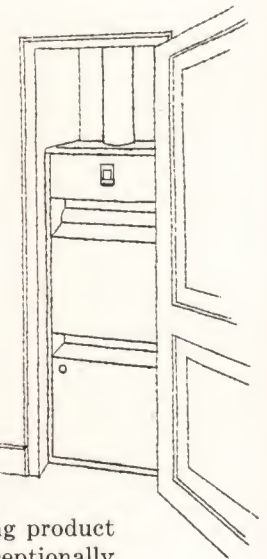




*Top:* A view of the drafting room where technically trained men of high calibre constantly strive to apply new ideas for improving products and performance.

*Center:* Shearing of metal sheets for the heating and cooling units is done on the latest type machines for maximum efficiency.

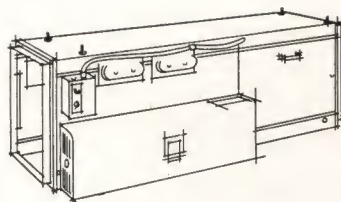
*Bottom:* Spot welding of panels for American-Standard year-round air-conditioning equipment is seen in this view at the Elyria, Ohio plant.



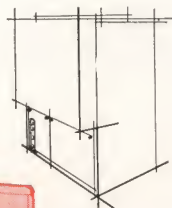
Typical of American-Standard air conditioning product line is this GUA Winter Air Conditioner. Exceptionally compact, it can be installed in a utility room, alcove, or closet. This modern and efficient model is made to meet every utility installation heating requirement.



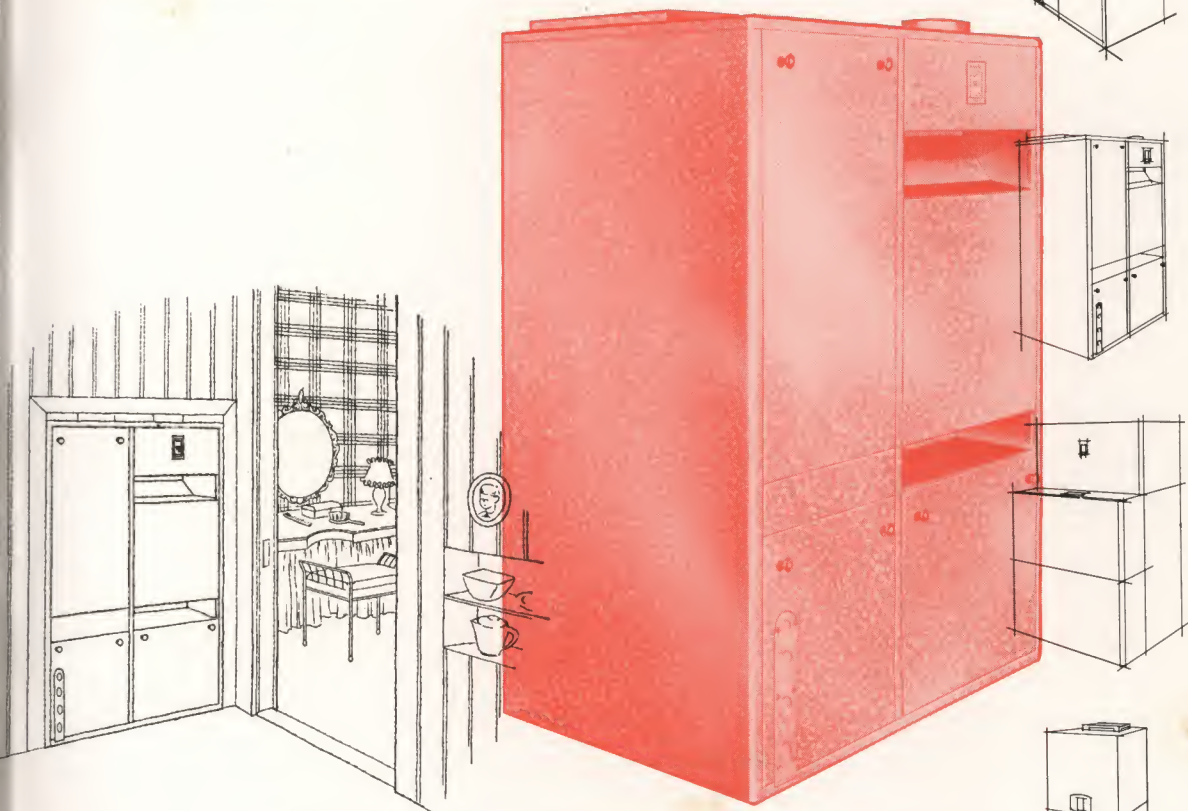
*Top:* Sectional heating elements are flawlessly welded, then pressure tested, to assure a complete seal so that products of combustion cannot enter the air in the home.



*Center:* Expert craftsmanship is called for in this coil assembly procedure at the Elyria, Ohio plant.



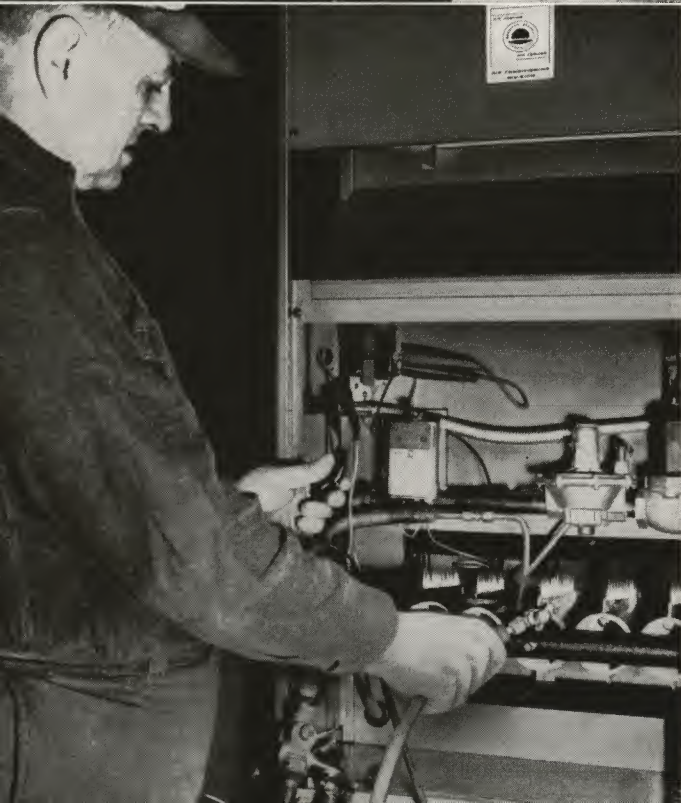
*Bottom:* Final product assembly, capped by rigid quality inspection, ends with latest packaging techniques to assure delivery in perfect condition.



Year-round air conditioning giving health and comfort is provided by this combination heating and cooling unit. This division also makes a complete line of central-type summer air conditioners for use with existing warm air furnaces or independently.







*Top:* This spectograph gives rapid accurate analyses of metals and alloys used in air-conditioning products by American-Standard.

*Bottom:* Testing of a completely assembled air-conditioning unit helps assure fully efficient performance of automatic controls.



Summer air-conditioning means increased earnings and profits for stores, restaurants and other business places. This commercial unit provides cool, clean, dehumidified comfort characteristic of American-Standard summer air-conditioners.





# American Blower Division

**AIR CONDITIONING EQUIPMENT**  
**AIR WASHERS**  
**BLOWERS**  
**CENTRIFUGAL COMPRESSORS**  
**COILS**  
**COOLING TOWERS**  
**DEHUMIDIFIERS**  
**DUST COLLECTORS**  
**FANS**  
**GÝROL FLUID DRIVES**  
**FLY ASH PRECIPITATORS**  
**UNIT HEATERS**  
**HUMIDIFIERS**  
**REFRIGERATING MACHINES**  
**UNIT CONDITIONERS**  
**UNIT VENTILATORS**  
**VENTILATORS, KITCHEN**  
**VENTILATORS, ROOF, POWER**  
**MECHANICAL DRAFT EQUIPMENT**

American Blower manufactures Air Conditioners, Comfort Cooling, Ventilating, Heating and Drying Equipment; Mechanical Draft and Industrial Fans, Fluid Drives, Dust Precipitators, and Refrigerating Machines. These products are the outgrowth of 75 years' experience in harnessing the power of air for man's use. A pioneer in the production of ventilating fans and blowers, American Blower today is a leading manufacturer of air-handling and air-conditioning equipment.

Another facet of American Blower's production—in which the company chalked up another first—is the Gýrol Fluid Drive, a device for obtaining smooth transmission of power and adjustable speeds for driven machinery. This is used for ships, Diesel locomotives, earth moving machines and many types of plant equipment.

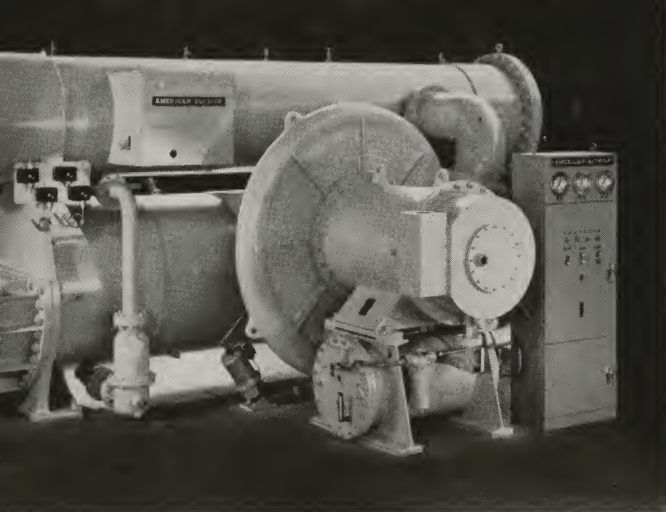
Known for their accurate engineering and precision manufacture, American Blower products are in use in industrial, commercial, and residential applications throughout the world.

Headquarters are in Dearborn, Mich., and other plants are in Columbus, Ohio and San Leandro, Calif. Sales offices, located in principal cities of the United States, are staffed by graduate engineers who are trained to assist customers in getting the best possible results from their American Blower products.

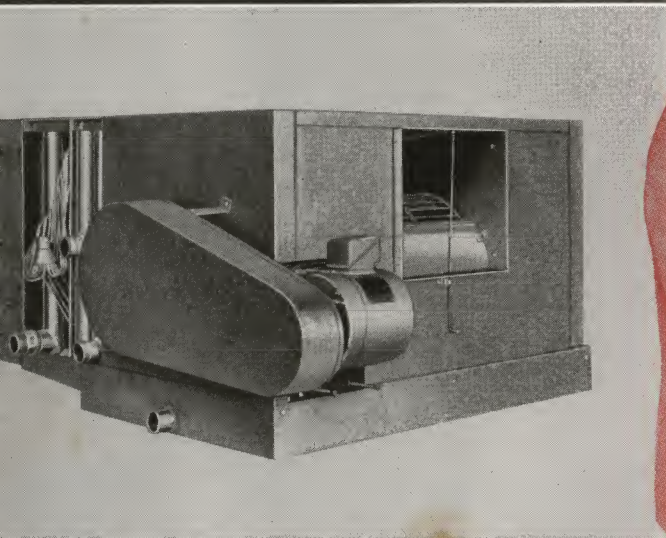
Increasing use of air-conditioning has brought greater demand for American Blower equipment in the heating, cooling, ventilating and refrigeration systems of industrial plants, commercial establishments and in homes as well.

Air-handling, too, has been getting more recognition as an important factor in industry. American Blower products today are playing a vital part in harnessing the power of air in processes using modern mass production methods. Typical of these uses is the Sirocco fan, known for its quiet and smooth operation as an air-moving device. Superiority of this fan has been proven by many applications.





*Top:* The heart of an air-conditioning system is the refrigeration machine. This single stage hermetically sealed compressor was developed by American Blower for capacities in the range of 100 tons and above. Outstanding features are high efficiency, minimum space requirements, and low sound level operation.

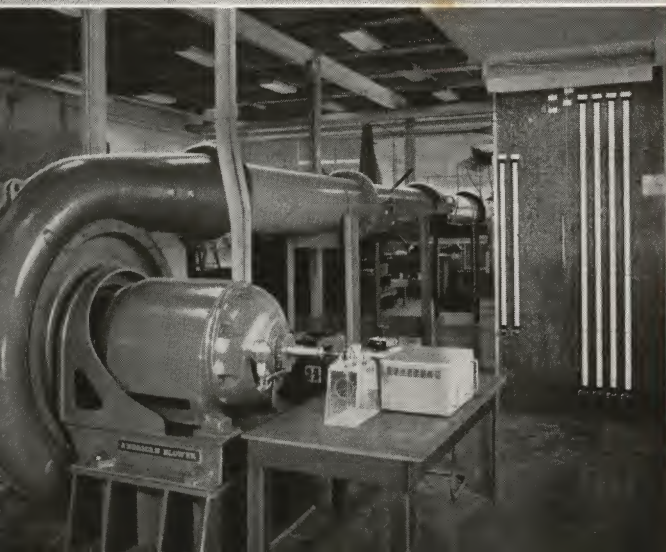


*Center:* This is the latest design in central station-cabinet type air-conditioning units. It is used in large office buildings, public buildings and stores where a large amount of conditioned air is required.

*Bottom:* The Centrifugal Compressor shown here is typical of the units developed by American Blower for industrial operations and processes which require the handling and compression of air and gases.



American Blower is meeting the ever-increasing demand for complete packaged type air-conditioners with the unit pictured here. This type of air-conditioning unit has widespread use in the commercial field such as small stores and shops, supermarkets, taverns and similar establishments where it would be too expensive to install central air-conditioning systems.

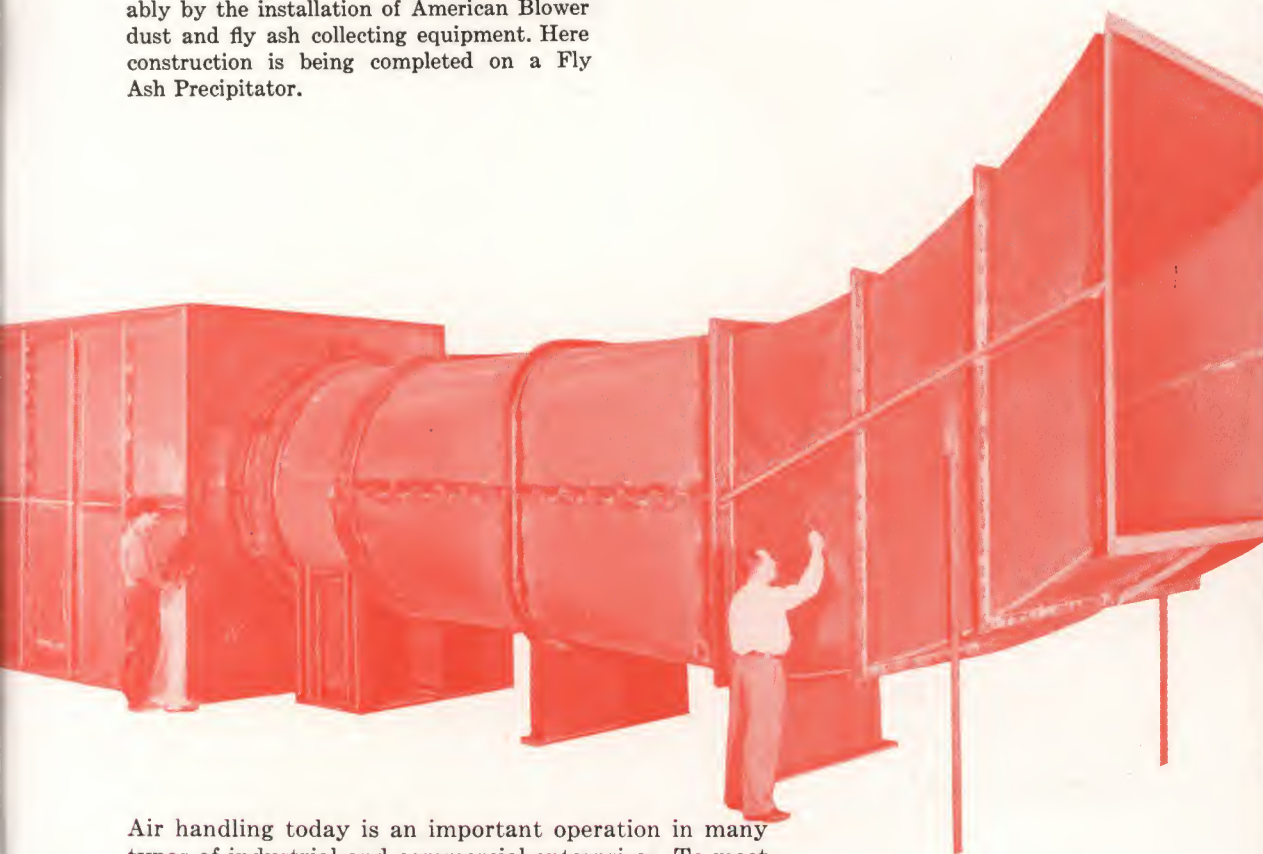




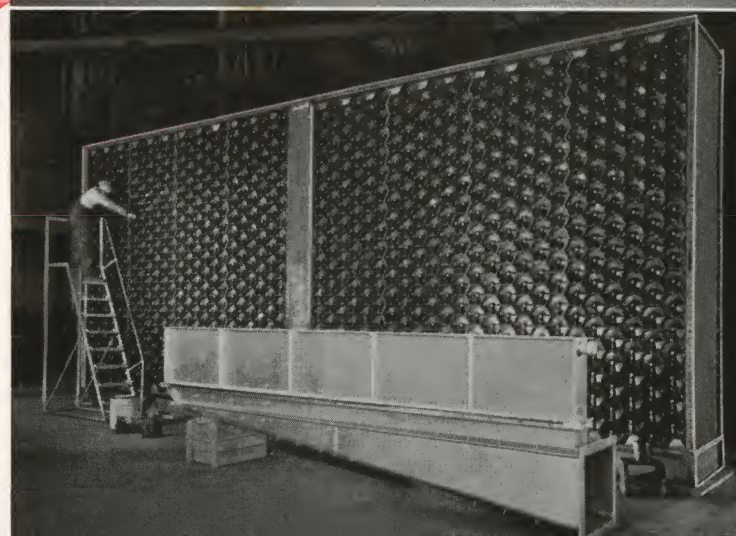
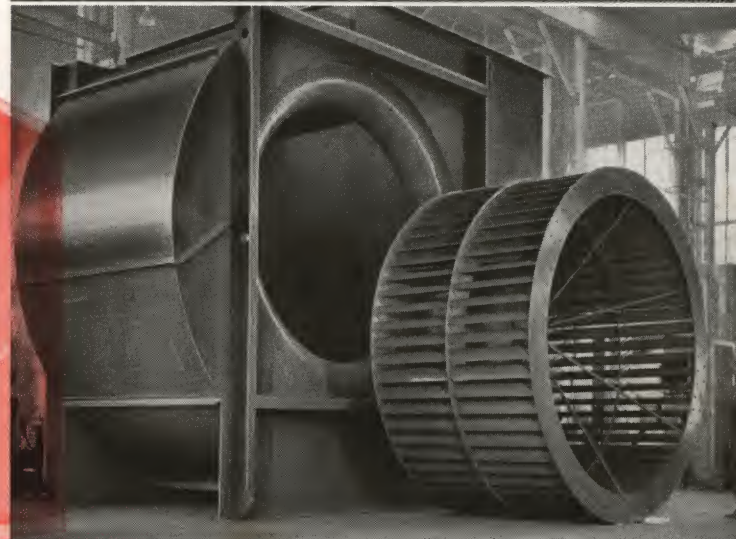
*Top:* Mechanical Draft Fans for Power Plant use represent a large portion of American Blower's production. Shown here is a typical Induced Draft Fan installed in the power plant of a leading Public Utility company.

*Center:* Ventilating systems require many different types of air handling equipment. A vast range of fans includes tiny Radar Blowers, Kitchen and Attic Fans and large Commercial and Industrial Fans. A large Sirocco Fan is shown here.

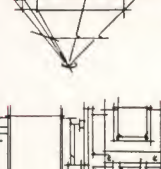
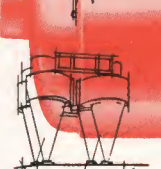
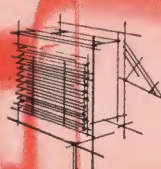
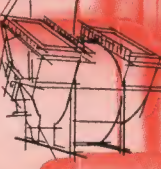
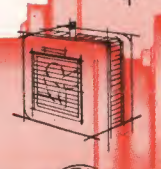
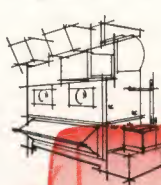
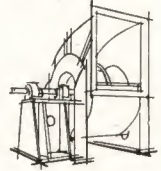
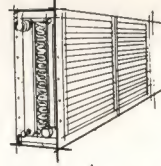
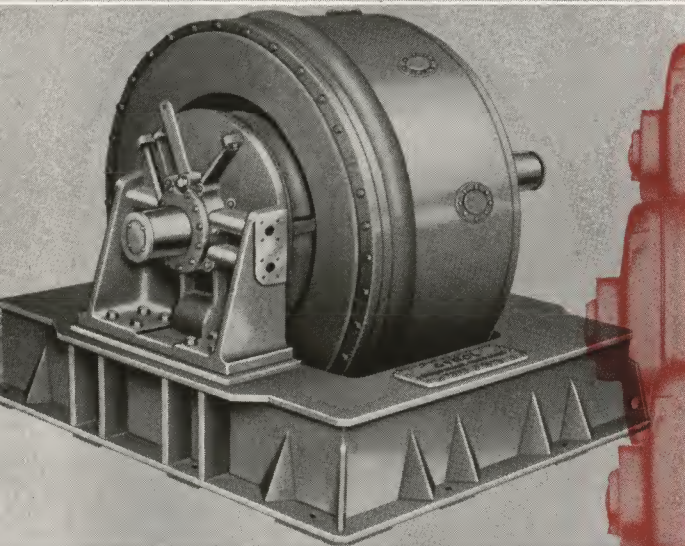
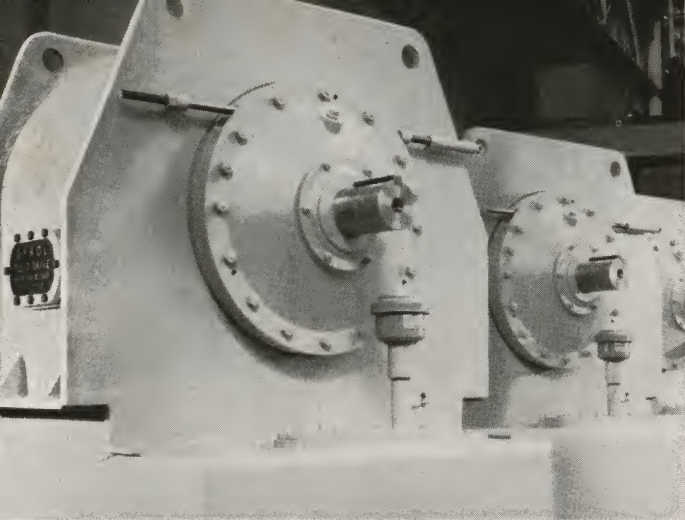
*Bottom:* Smoke Abatement Programs in many large cities have been helped considerably by the installation of American Blower dust and fly ash collecting equipment. Here construction is being completed on a Fly Ash Precipitator.



Air handling today is an important operation in many types of industrial and commercial enterprises. To meet this growing need, American Blower builds Vaneaxial Fans such as pictured here, in a variety of sizes for numerous applications.







*Top:* Smooth transmission of power for a variety of industrial applications is provided by Gyrol Fluid Drives. This photo shows class 2F adjustable speed units for oil well drill rig and other diesel engine applications.

*Center:* Gyrol Fluid Drives have been used for Marine application since 1934. This is the latest design for Marine use, packaged type units ranging from 1,500 to 4,000 HP.

*Bottom:* Class 4 Gyrol Fluid Drive is used for adjustable speed control of fans, centrifugal compressors, reciprocating pumps and numerous other applications where adjustable speed is essential.

Gyrol Fluid Drive provides low starting current, smoother acceleration, overload protection and shock absorption. It operates on the hydro-kinetic principle, transmitting power slowly by a vortex of oil, with no mechanical connection between the motor and driven machinery. Units pictured here range from 1 to 20 HP.





**AIR CONDITIONING**

**CONTROLS**

**FITTINGS**

**HOME APPLIANCES**

**INDUSTRIAL SUPPLIES**

**KITCHENS**

**PIPE**

**PLASTIC WALL TILE**

**PLUMBING FIXTURES**

**PLUMBING ACCESSORIES**

**RADIATOR HEATING**

**TOOLS**

**VALVES**

**WATER HEATERS**

**WARM AIR HEATING**

# Amstan Supply Division

This division of American-Standard is engaged in the vitally important function of distribution. If products are to be on hand when and where they are needed, there must be an efficient system of moving them from the producer to the dealer and ultimate consumer.

Through a network of 75 wholesaling units Amstan Supply Division distributes in its operating areas many of the products, materials and tools used in residential, commercial and institutional construction.

Amstan Supply Division insures easy availability of heating systems, cooling equipment, plumbing fixtures, kitchens, appliances, and related products needed for the installation of these products.

Another important function carried on by Amstan is the distribution of supplies used in the maintenance of many industrial operations and in the manufacturing of finished products.

Among the industrial supplies stocked by Amstan, pipe and fittings are available in many different materials, sizes, weights and thicknesses. Through them flow gas, oil, water, chemicals, steam, air, food products and other fluids that are the life blood of industry. Valves to regulate the flow of pipe lines are distributed in a wide range to meet nearly every industrial application.

In all, Amstan Supply's inventory numbers more than 10,000 products. Many of these are manufactured by other divisions of American-Standard. Thousands more are made by other companies. Distributed together, they enable Amstan Supply to serve its customers with a broad range of products keyed to the nation's progress.

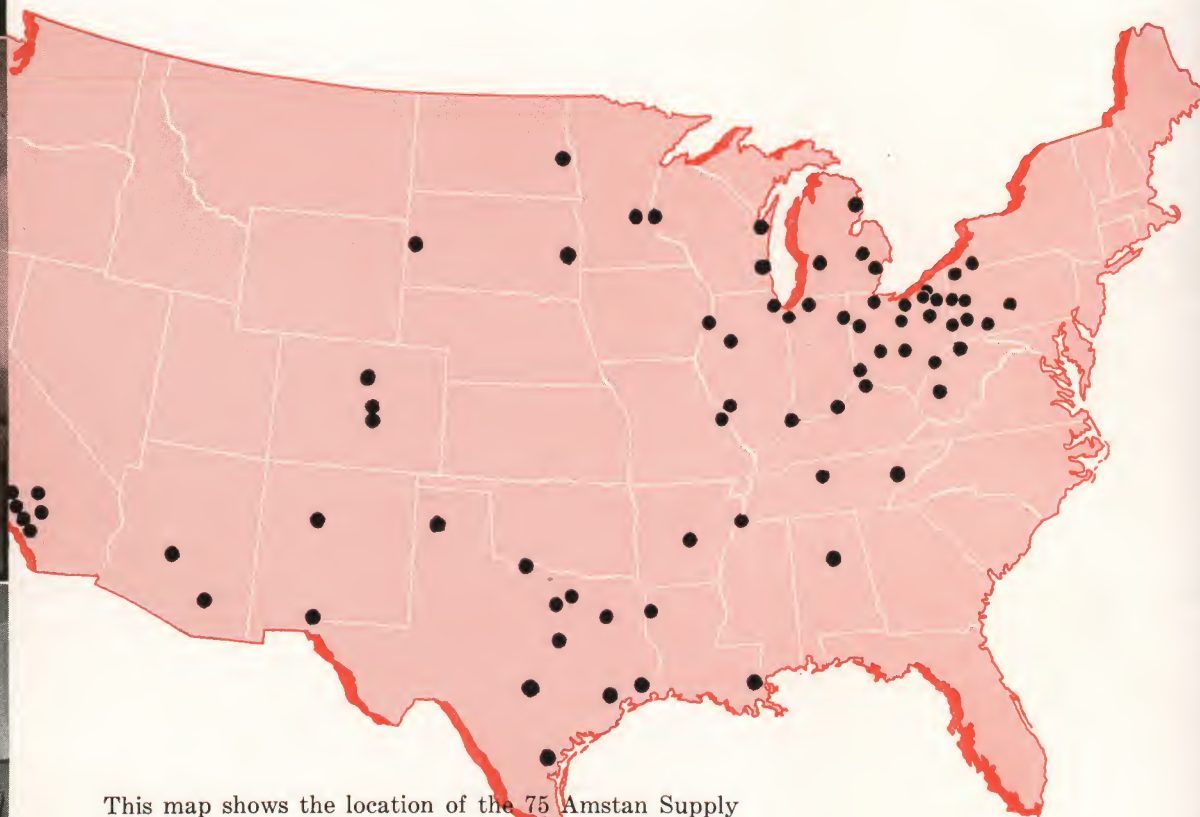




*Top:* The New Orleans branch exemplifies the modern design of branch and warehouse buildings especially set up for economical distributor operation.

*Center:* Architects, builders, plumbing and heating contractors find this typical Amstan showroom a valuable sales aid.

*Bottom:* At Amstan Supply sales counters, customers look for fast service on specialty items, parts for replacement and repair as well as small products for immediate pick-up.



This map shows the location of the 75 Amstan Supply distributing units in 23 states throughout the United States. With this large number of outlets to supply retailers, Amstan Supply is a leading distributor in the plumbing and heating industry.





*Top:* Immediate delivery and product availability are important factors considered by industrial buyers. Giant gate valves, welding fittings and flanges are a few of the many industrial items stocked and sold by Amstan.

*Bottom:* Having the right product in the right place at the right time keynotes Amstan's success as a distributor. To maintain high standards, Amstan keeps pace with modern warehousing methods.



Proper handling and stocking of pipe means faster service for customers of Amstan Supply Division. Modern methods of materials handling contribute to efficient movement of products.





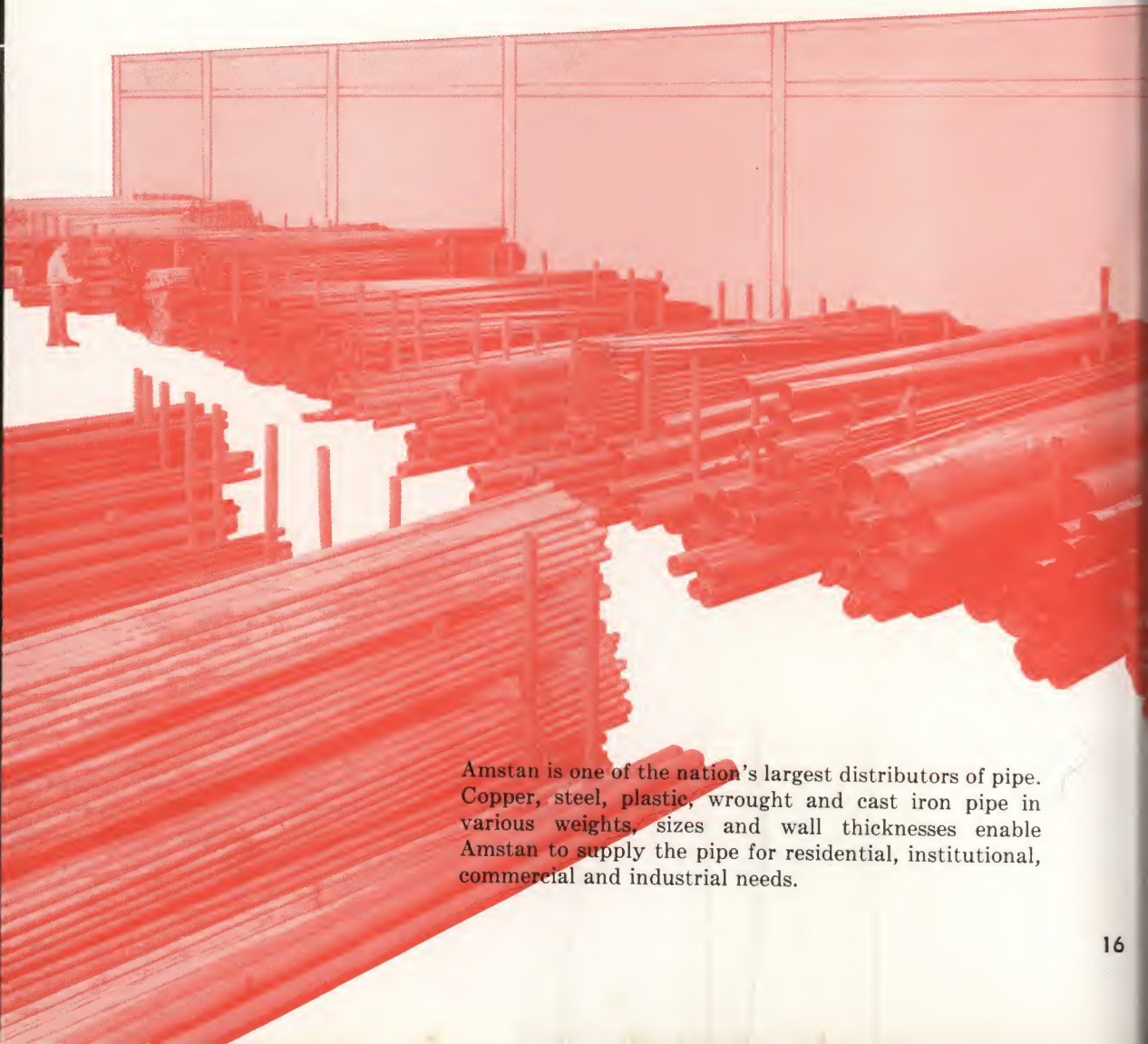
*Top:* This catalogue rack symbolizes more than 10,000 products which Amstan sells.



*Center:* Product delivery is as important as having it in stock. A large fleet of trucks help Amstan enjoy a reputation for fast, dependable service.



*Bottom:* Amstan's cost for product storage and movement are lowered through materials handling equipment which permit better utilization of warehouse space.



Amstan is one of the nation's largest distributors of pipe. Copper, steel, plastic, wrought and cast iron pipe in various weights, sizes and wall thicknesses enable Amstan to supply the pipe for residential, institutional, commercial and industrial needs.





# Atomic Energy Division

## **NUCLEAR REACTORS**

**Research Type**

**Power Type**

## **NUCLEAR COMPONENTS**

**Primary Coolant Recording and  
Control Systems**

**Primary Nuclear Valves**

**Radiation Monitoring, Recording and  
Control Systems**

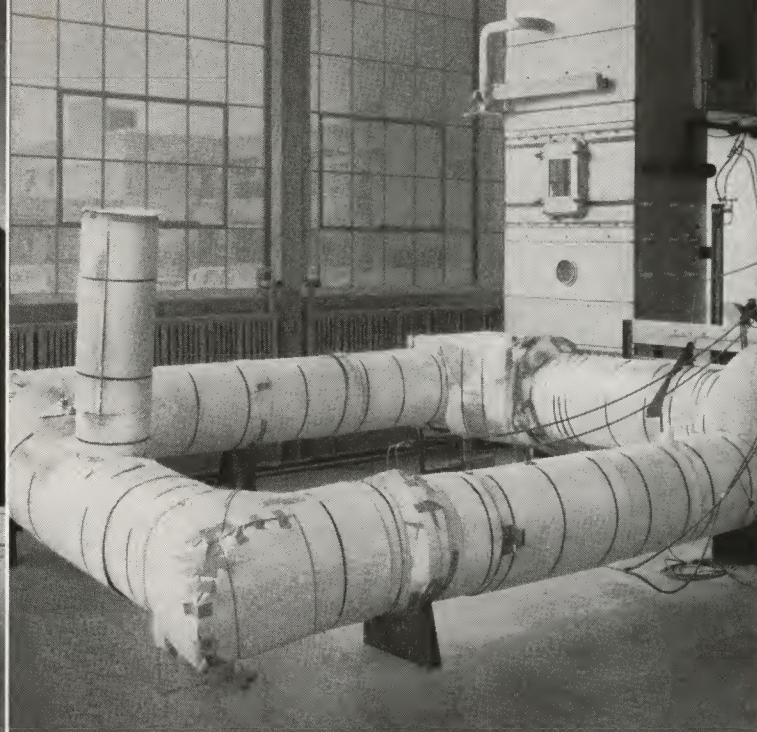
**Reactor Mechanisms**

For well over half a century American-Standard has been a leader in the design and manufacture of products which today are important components of atomic reactor systems. Heat exchangers, boilers, dust collectors, and automatic electronic controls are among the many items made by American-Standard operating divisions.

The Atomic Energy Division was established to coordinate and stimulate the development of the corporation's activities in the atomic energy field. In addition, this division of the American-Standard family will design and develop nuclear reactor systems tailored to specific customer requirements for both industrial and educational organizations. It will also develop specialized components for such systems.

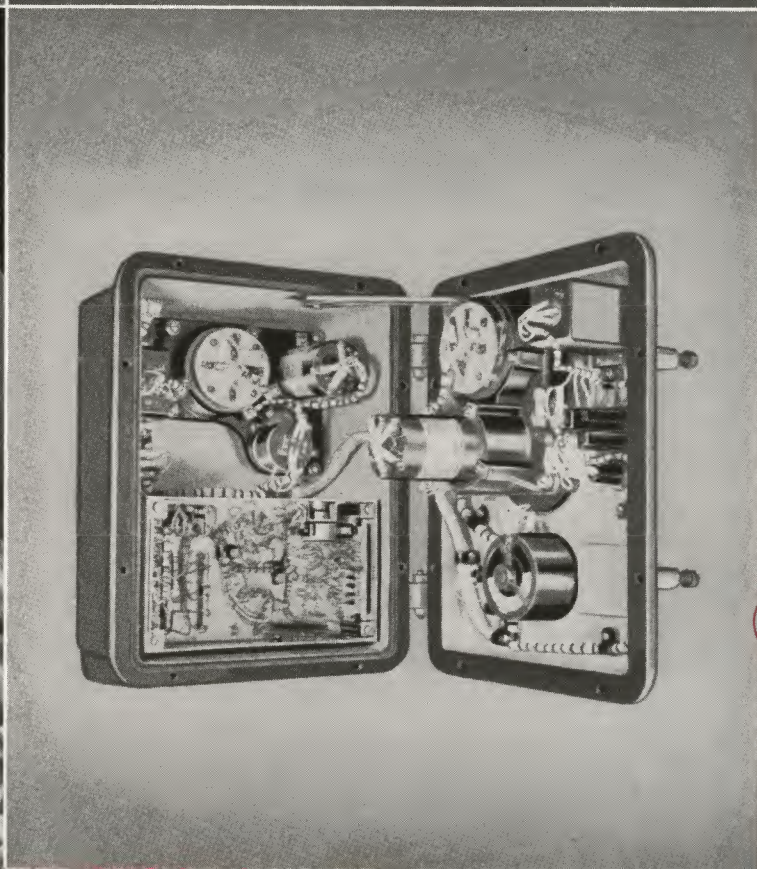
In its coordinating activities this division cooperates with production and research units of other American-Standard divisions.





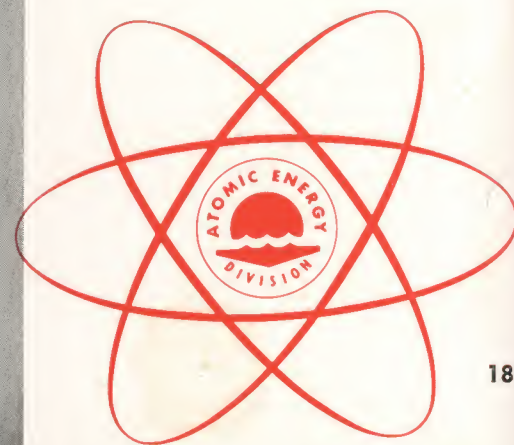
*Top Left:* Headquarters of the Atomic Energy Division are in Redwood City, California.

*Top Right:* This is a high temperature air test loop available from American Blower Corporation. This Division makes centrifugal compressors, fluid clutches and blowers which have application to gas-cooled reactor systems, and radioactive dust separators.



*Lower Left:* A high pressure heat exchanger available from the Ross Heat Exchanger Division. This American-Standard unit designs and manufactures liquid metal furnaces, pressure vessels, and special heat exchangers for atomic reactors.

*Lower Right:* Here is a computer mechanism utilizing a magnetic type amplifier and transistor powered pre-amplifier made by Detroit Controls Corporation. Other nuclear system components made by Detroit Controls include magnetic amplifiers, automatic recording and telemetering equipment, electromagnetic pressure transducers, pressure controllers and indicators.







## C. F. Church Division

### **MOLDINGS**

Rubber, hard and soft  
Plastic

### **PLASTIC WALL TILE**

### **PLASTIC WALL TRIM**

### **TOILET SEATS**

Hard Rubber  
Molded Plastic  
Sheet Covered  
Solid Plastic  
Alkyd Molded

This member of the American-Standard family—C. F. Church Division—began as a producer of brass beds. They were not ordinary brass beds, for the brass was coated with a revolutionary new finish called sheet pyroxylin, one of the first commercially adaptable plastics. And it was as a pioneer in the field of plastics that the company grew.

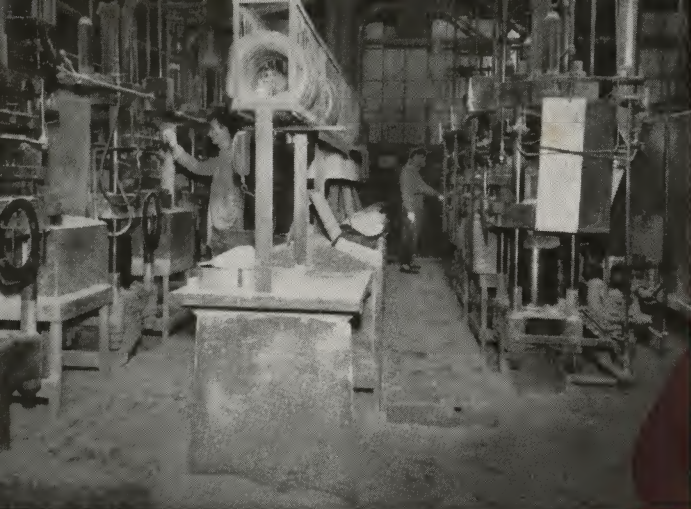
Today its products range from the now famous Church toilet seats through plastic wall tiles, plastic mixing valves, plastic fan grills and blades, aircraft parts and many other plastic and rubber products for the plumbing and electrical industries.

Early in its career, Church experimented with plastic sheeting and in the process developed the first white toilet seat. This unique product became a success from the start. Over the years the seats have been improved, restyled and produced in a variety of colors to live up to the Church slogan "the best seat in the house."

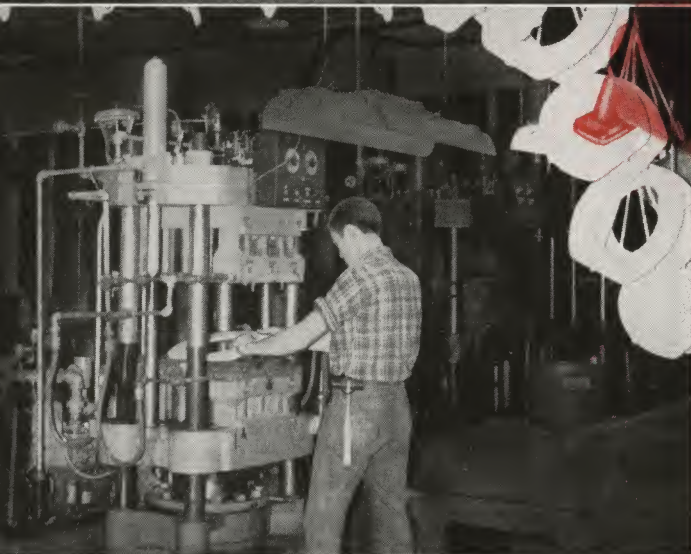
The world's leading producer of toilet seats, the firm today makes many types in plastic and hard rubber. Most important among Church's recent developments is decorative plastic wall tile. Produced in a variety of lasting colors for indoor use, the crack-proof, chip-proof plastic tile is light enough so that practically any wall will support it without special treatment. It has the further advantages of being resistant to moisture and dryness.

Made in all standard sizes, the tile has an easy-to-clean lustrous surface which makes it ideal for bathroom and kitchen walls.

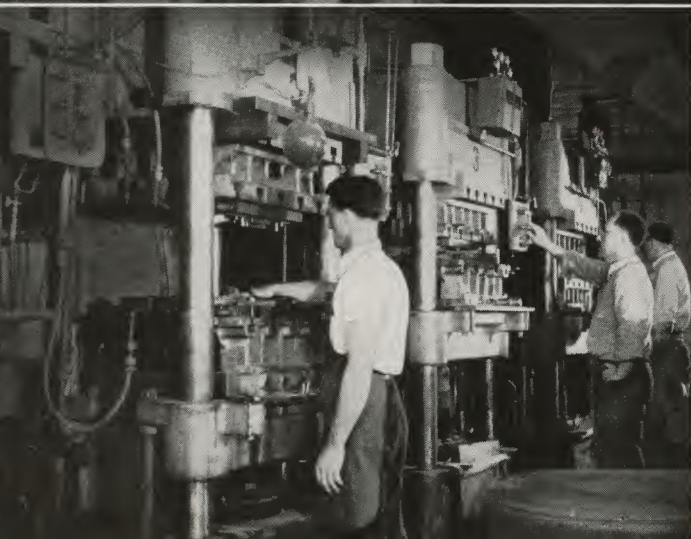




*Top:* A section of the core molding department where molded seat and cover cores are made by combining hardwood fibrous chips and resins under tons of pressure.



*Center:* Operators in the molding room receive the seats directly from overhead conveyors which simplify materials handling.



*Bottom:* Church seats receive a beautiful thick lustrous finish with lasting hardness and toughness when the Moltex finish is molded into one homogeneous unit.



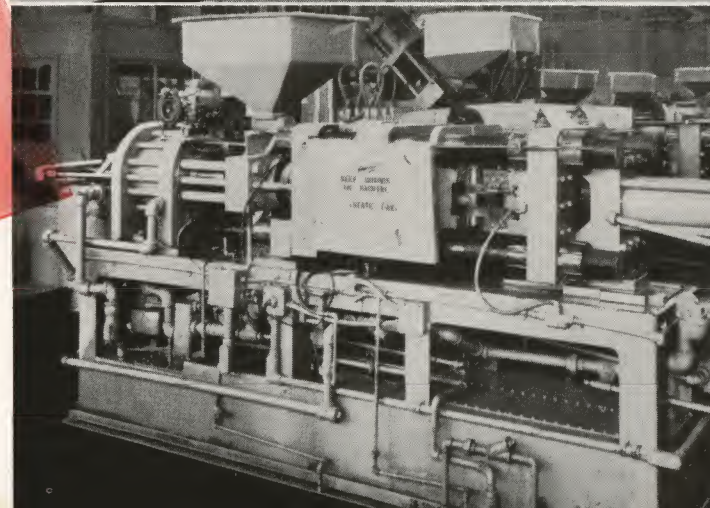
Schools, hospitals, hotels, factories and public buildings have chosen Church Moltex Solid Plastic and Hard Rubber Seats because of their great built-in strength.



*Top:* A typical kitchen springs to life and gaiety in color through installation of Church Wall Tile.

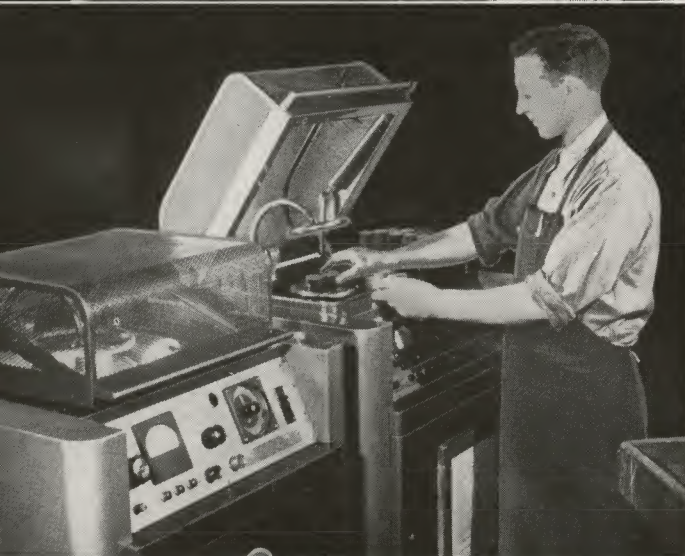
*Center:* Three distinctive sizes of Church Wall Tile were used to produce the beautiful effect of this rich looking bathroom.

*Bottom:* This is a typical battery of injection machines producing Church Plastic Wall Tile.

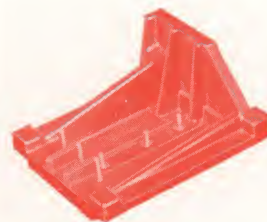


Easily installed on almost any wall in new homes or old, Church Tile works a magic transformation and offers endless opportunities for developing smart decorating schemes in kitchens and bathrooms. It is permanent, retaining its mirror-smooth surface indefinitely.





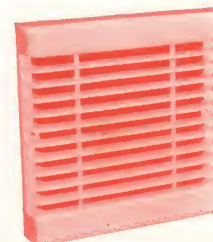
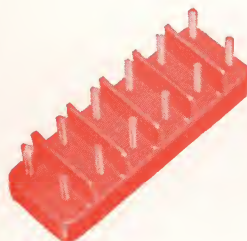
Modern facilities in Church's Plastics Plant offer the newest methods and procedures in custom molding. Diversified experience in molding large and small parts by compression, injection and plunger methods have placed Church on many manufacturers' preferred lists for originality of design, precision, accuracy, and un-failing high quality.



*Top:* This vertical injection machine was designed and built by Church for unusually difficult jobs requiring intricate inserts.

*Center:* The preheating of preform tablets on an electronic power generator is an important operation of transfer molding.

*Bottom:* This view shows a line of transfer presses in action in one of the Church plants.







# Detroit Controls Corporation

## CONTROLS

DEVICES FOR THE MILITARY  
AND AIRCRAFT

## PROCESS CONTROLS

PUMPS, FUEL TRANSFER (Oil)

## REGULATORS

## STRAINERS

## SWITCHES

## THERMOSTATS

Engine

Room

## TRANSFORMERS

## VALVES

Bronze

Expansion (Refrigeration)

Float (Oil Heating)

Gas (Heating)

Radiator

Solenoid

Water Mixing

Quality and research go hand in hand at Detroit Controls Corporation, makers of automatic controls for mechanical equipment. Since 1877 when it was organized, the firm's purpose has been the development and improvement of controls for many uses.

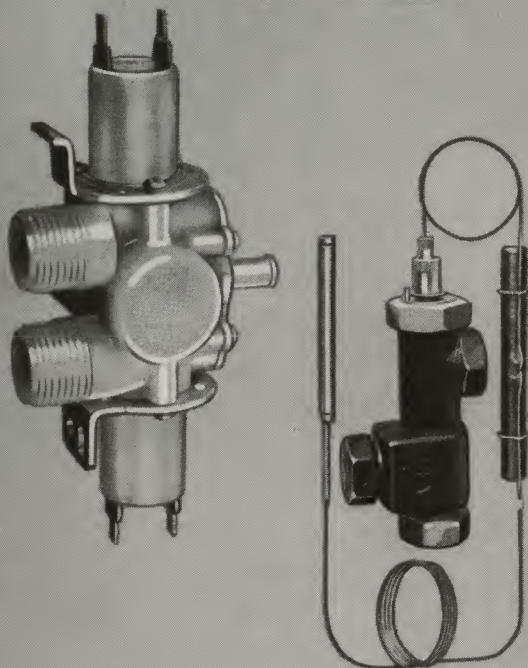
Today Detroit Controls' work extends through heating, refrigeration and air-conditioning; it makes Diesel engine safety controls and controls for safe and efficient operation of equipment ranging from home appliances to highly-complicated automatic industrial processes.

In practical terms, this means that products of Detroit Controls assure greater safety, comfort and convenience not only in your home, but in almost every facet of your highly mechanized life. They make planes, trains and buses more dependable through controlling lubrication and preventing excessive engine temperatures; they regulate the heat in your home and are a safety factor in the operation of your washing machine and automobile.

Development of new controls for new uses is a specialty of Detroit Controls Corporation. Because of this, technically trained sales representatives equipped to help the customer with his problems and assist in product development from a control viewpoint are located in major cities throughout the United States. They serve as liaison between the customer and the firm's research and engineering departments, which are devoted to constant study and experiment in the search for new and better controls.

Rigid inspection and testing facilities insure uniform quality for the Company's products, many of which must be assembled by hand because of the precision character of the controls.





*Top:* The "Classic" Thermostat, for use with gas or oil-fired heating units, controls the temperature of the heated space within a fraction of a degree.

*Center Left:* Automatic clothes washing machines control the flow of hot and tempered water for various washing and rinsing cycles with this Detroit Water Mixing Valve.

*Center Right:* The "Weatherbrain" control senses outdoor temperature changes, through an outside bulb, and automatically regulates the temperature of circulated hot water in the heating system. Thus indoor comfort is maintained regardless of outside temperature.

*Bottom:* All control functions of an air-conditioning system are brought to a central point in this Control Panel which contains the necessary relays, high and low voltage terminals, etc.



Research, development and engineering are carefully coordinated at Detroit Controls to produce controls which will give long, trouble-free service at a reasonable cost. Thorough testing of all products is a major factor in maintaining the high standards of quality for which Detroit Controls are known.

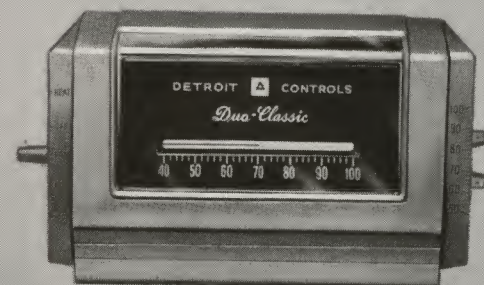
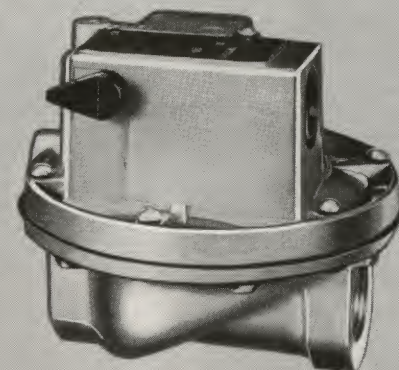
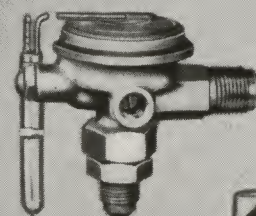
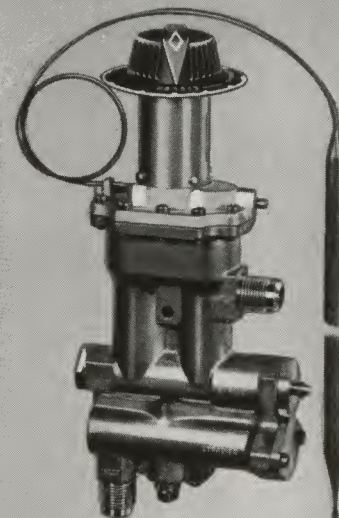


*Top:* Air conditioners which circulate hot water for heating and chilled water for cooling, use this "Selectaflow" Control for automatically making the changeover from one to the other, as conditions require.

*Center Left:* This valve was designed for use in the increasingly popular automobile air-conditioning system. It controls the amount of refrigerant passing through the cooling coils to produce the amount of cooling desired.

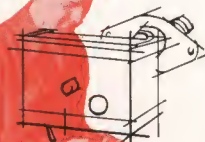
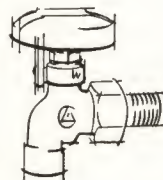
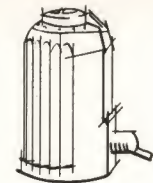
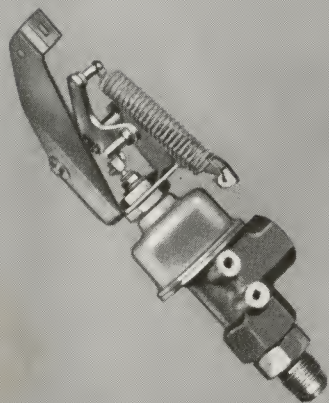
*Center Right:* A diaphragm Gas Valve for use with gas-fired heating units. Dependable operation and rugged construction are characteristic of this and other Detroit Controls.

*Bottom:* The "Duo-Classic" Thermostat responds to room temperature to provide the desired amount of heating, cooling and air circulation in the automatic control of year-round air-conditioning systems.



Detroit Controls' standards of quality are maintained by rigid testing procedures. The precision calibration of many controls requiring extremely accurate adjustment is made in a heavily insulated room built for this express purpose.





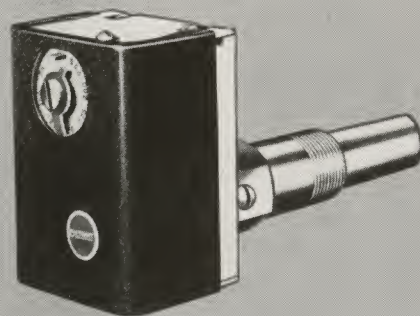
*Top:* This By-pass Valve regulates, by means of a dashboard control, the temperature of the cooled air circulated into an air-conditioned auto.

*Center:* Proper installation and service techniques are acquired at Detroit Controls in special classes for sales and service personnel.

*Bottom:* An Immersion Control which is designed for controlling the boiler water temperature of a hot water heating system.



Expert craftsmanship is called for on the production lines of Detroit Controls. In keeping with modern methods, every means is used to assure better quality control. Trained and experienced workers are seen in this portion of the refrigeration expansion valve production line.







# Kewanee Boiler Division

## **COMMERCIAL AND INDUSTRIAL**

High Pressure Firebox Boilers

Low Pressure Firebox Boilers

High Pressure Scotch Type Boilers

High Pressure Scotch  
Boiler-Burner Units

Low Pressure Scotch Type Boilers

Low Pressure Boiler-Burner Units

Job-Built Boilers

Water Tube Package Steam Generators

## **RESIDENTIAL BOILERS**

## **WATER HEATING EQUIPMENT**

Direct Fired and

Storage Types

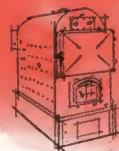
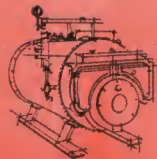
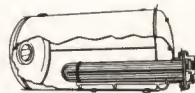
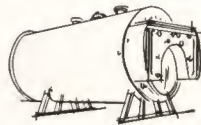
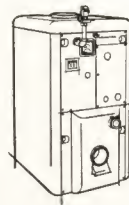
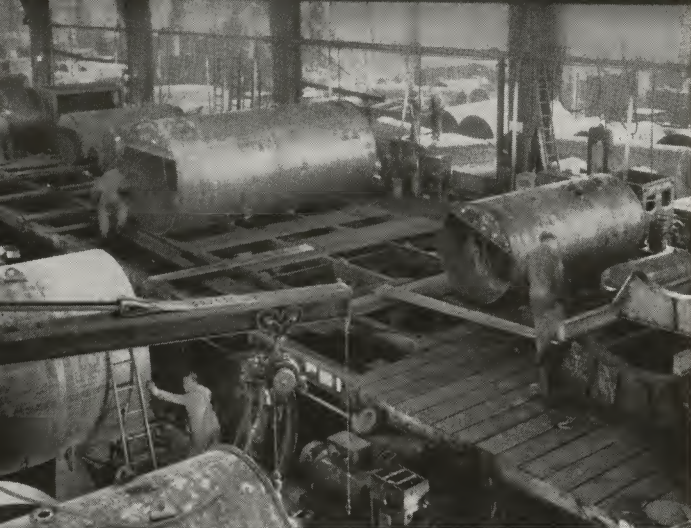
For more than half a century Kewanee has been known throughout the world as a leading producer of commercial and industrial steel boilers. Regardless of the method used for distributing heat or the area to be heated, a sound hot water or steam system starts with a good boiler.

The Kewanee Boiler Division of American-Standard makes all types, from small home units to installations for large buildings and factories. The biggest boiler made by Kewanee is capable of providing heat for the equivalent of 35 average six-room houses.

Boilers made by this division are of many types—both low and high pressure, welded and riveted; and for use with any fuel. Kewanee also makes special water heating equipment in both direct fired and steam coil storage types.

Kewanee steel boilers are manufactured in Lebanon, Pa., and Kewanee, Illinois, where the division's headquarters are located. Boilers are sold through wholesale distributors and plumbing and heating retailers.

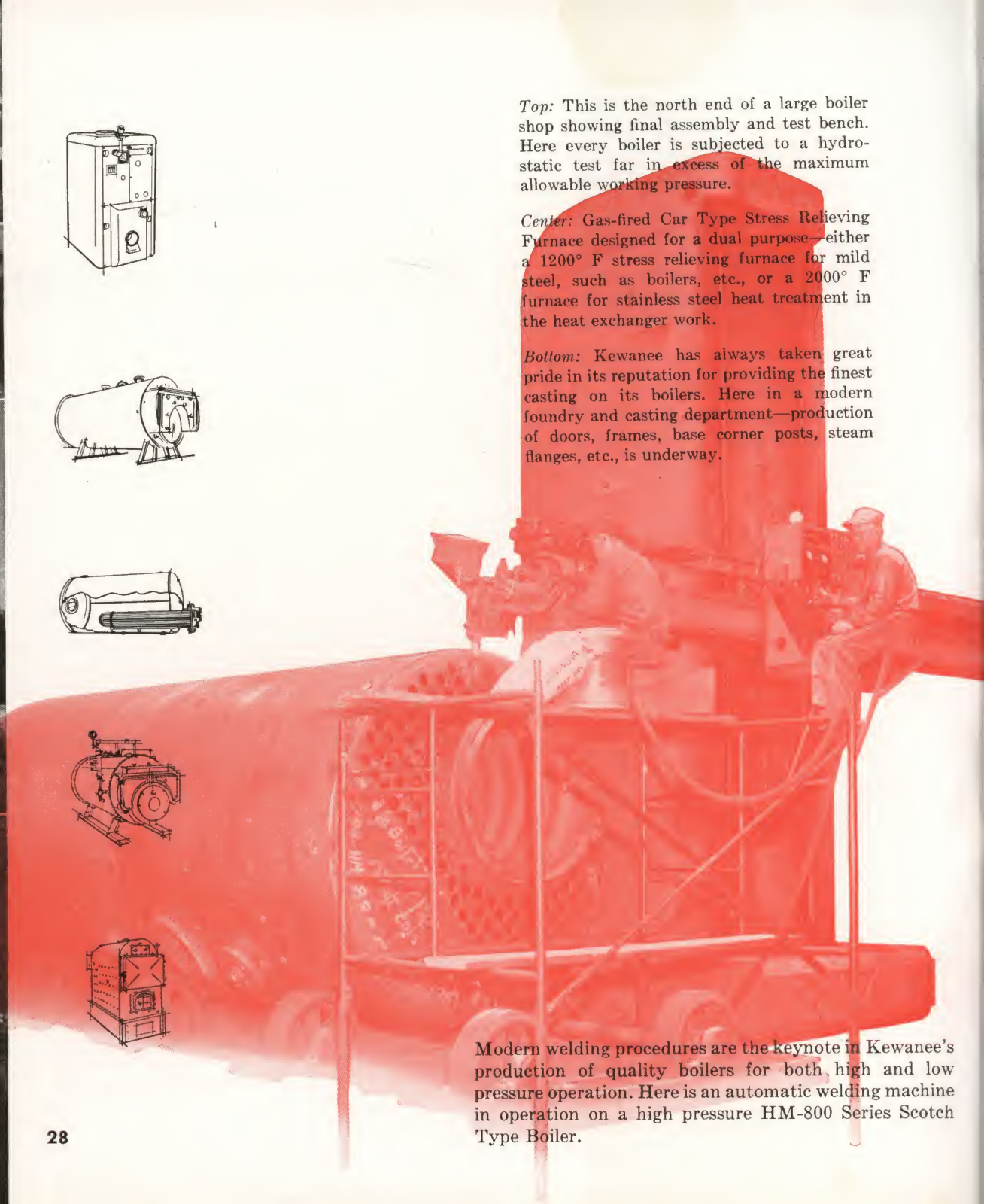




*Top:* This is the north end of a large boiler shop showing final assembly and test bench. Here every boiler is subjected to a hydrostatic test far in excess of the maximum allowable working pressure.

*Center:* Gas-fired Car Type Stress Relieving Furnace designed for a dual purpose—either a 1200° F stress relieving furnace for mild steel, such as boilers, etc., or a 2000° F furnace for stainless steel heat treatment in the heat exchanger work.

*Bottom:* Kewanee has always taken great pride in its reputation for providing the finest casting on its boilers. Here in a modern foundry and casting department—production of doors, frames, base corner posts, steam flanges, etc., is underway.



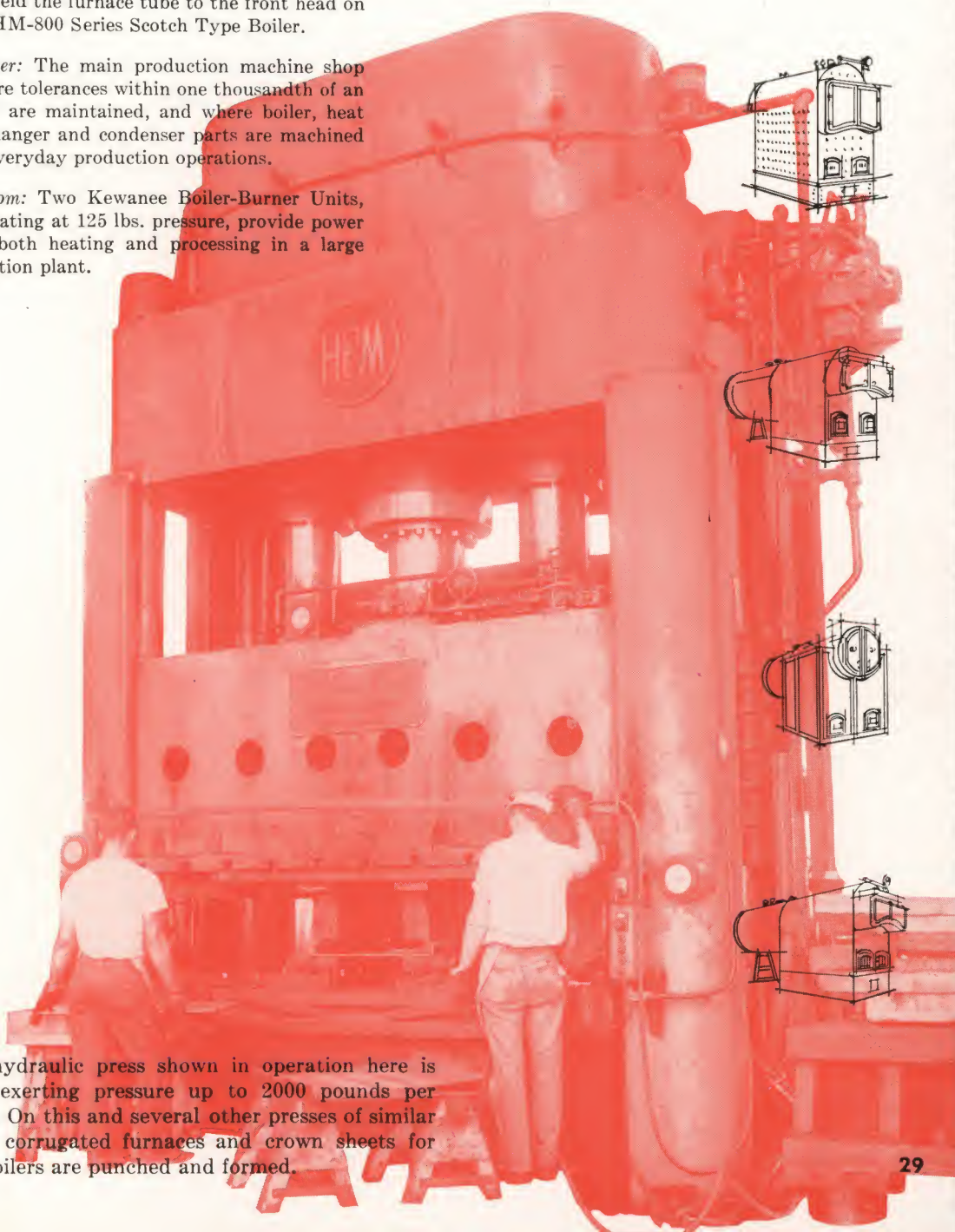
Modern welding procedures are the keynote in Kewanee's production of quality boilers for both high and low pressure operation. Here is an automatic welding machine in operation on a high pressure HM-800 Series Scotch Type Boiler.



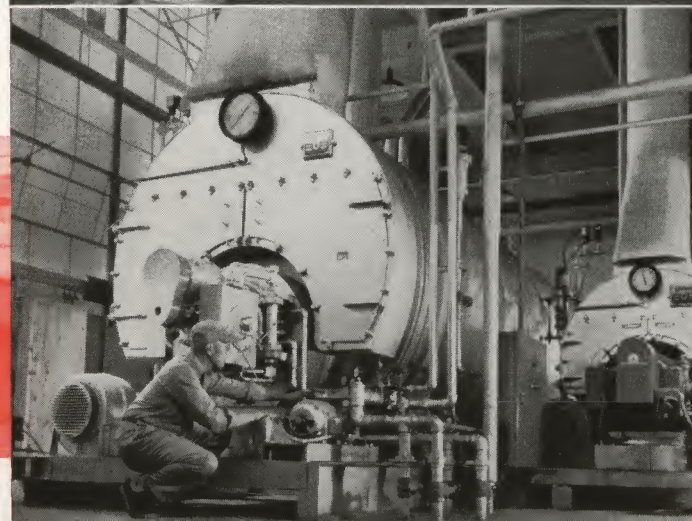
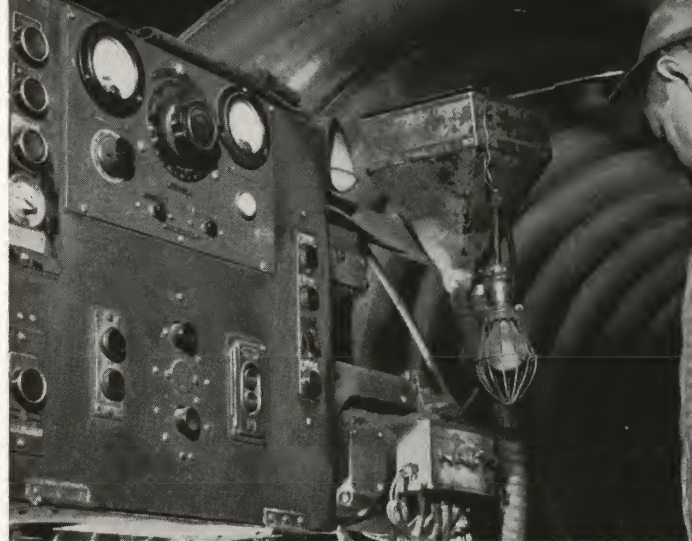
*Top:* This automatic welding machine is used to weld the furnace tube to the front head on an HM-800 Series Scotch Type Boiler.

*Center:* The main production machine shop where tolerances within one thousandth of an inch are maintained, and where boiler, heat exchanger and condenser parts are machined in everyday production operations.

*Bottom:* Two Kewanee Boiler-Burner Units, operating at 125 lbs. pressure, provide power for both heating and processing in a large aviation plant.



The large hydraulic press shown in operation here is capable of exerting pressure up to 2000 pounds per square inch. On this and several other presses of similar size, heads, corrugated furnaces and crown sheets for Kewanee Boilers are punched and formed.







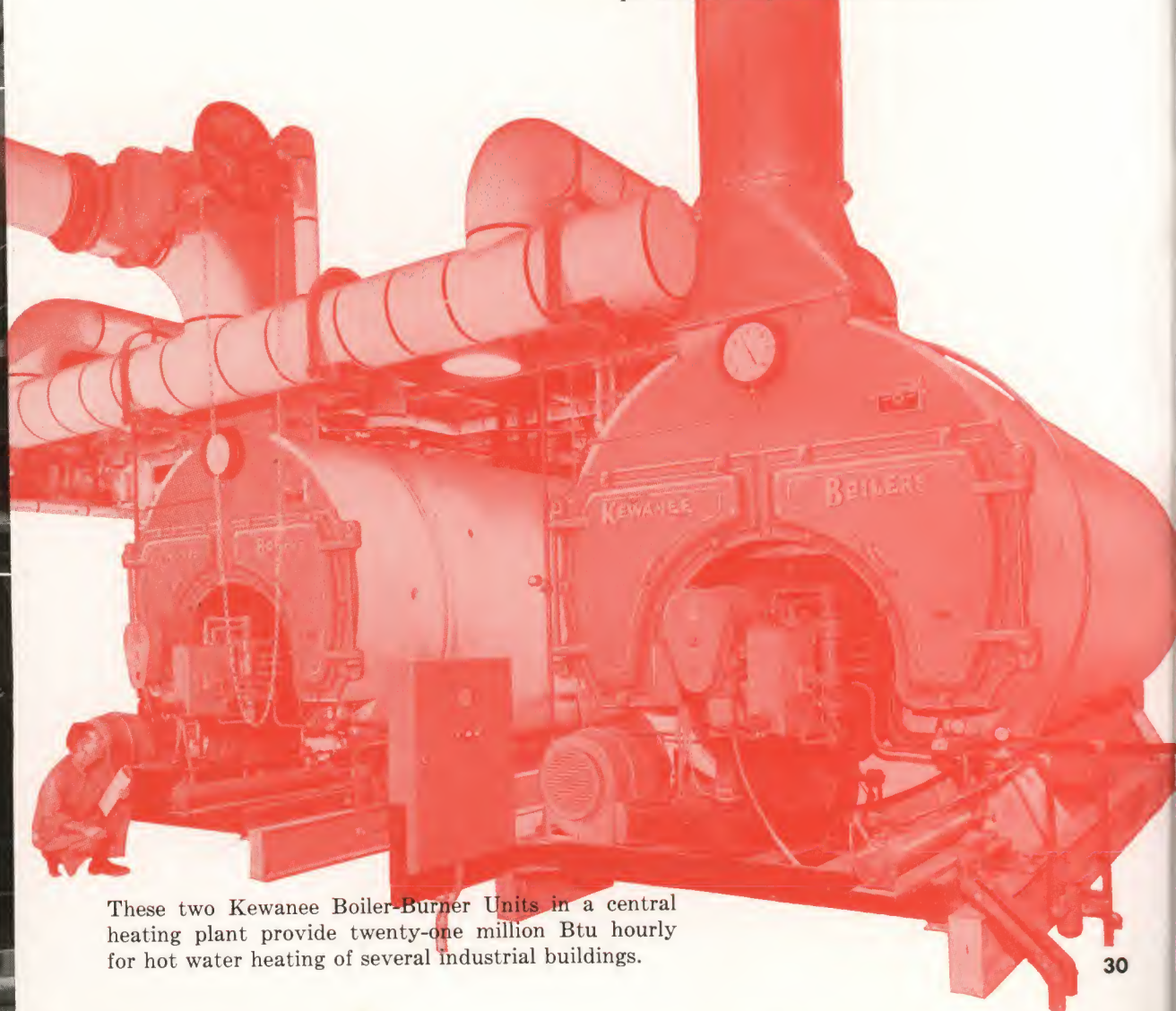
*Top:* Here an LM-800 Series Scotch Type Boiler is being lowered into place at the job site.



*Center:* An overall view of the West Bay in the large commercial and industrial boiler shop. Overhead cranes range from 5 to 50 ton capacities.



*Bottom:* Two Kewanee Type "C" Boilers produce a total of more than eleven million Btu per hour in a typical school installation.



These two Kewanee Boiler-Burner Units in a central heating plant provide twenty-one million Btu hourly for hot water heating of several industrial buildings.





# Plumbing and Heating Division

Health, comfort and convenience are end products of this division. With 15 plants the Plumbing and Heating Division is American-Standard's largest operating unit.

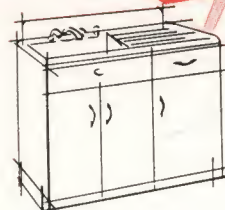
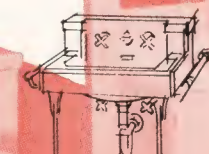
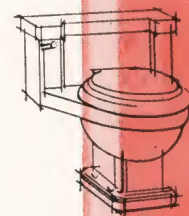
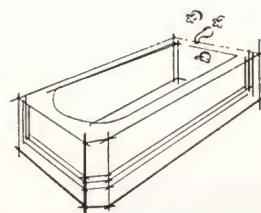
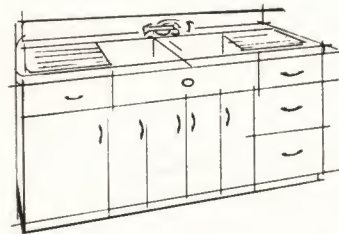
Its plants make heating, cooling, plumbing and kitchen products for residential, commercial, industrial and institutional use. A long tradition of quality and value; research for product improvement and development; and a country-wide sales organization devoted to customer service, combine to maintain the position of leadership of American-Standard in the industry.

Sales offices in principal cities serve more than 1,200 selected distributors; these, in turn, supply more than 50,000 independent retailers who sell, install and service American-Standard products. A complete line of modern plumbing fixtures for bathrooms, kitchens and laundries is augmented by specialized fixtures and fittings for schools, hospitals, ships, trains and other places.

American-Standard produces a wide range of heating and cooling products for homes, office buildings, hotels and institutions. Modern design has made automatic boilers neat and compact; baseboard panels, convectors and radiators provide healthful comfort with a pleasing appearance. Year 'round air conditioning by Remotaire units, which use thermostatically controlled heated and chilled water from a central boiler and chiller, respectively, permits individual regulation of room temperatures in multi-room buildings and residences.

AIR CONDITIONING EQUIPMENT  
BATHS  
BASEBOARD HEATING PANELS  
BIDETS  
BOILERS, CAST IRON, HEATING  
BURNERS, CONVERSION  
CONVECTORS  
DRINKING FOUNTAINS  
FITTINGS, BRASS PLUMBING  
HEATING EQUIPMENT  
LAUNDRY TRAYS  
LAVATORIES  
MAGNESIUM CASTINGS  
PLUMBING FIXTURES  
RADIATORS  
SINKS  
SINK & LAUNDRY COMBINATIONS  
SPECIAL FIXTURES  
URINALS  
WATER CLOSETS  
WATER HEATERS





*Top:* The smart Dresslyn lavatory-dressing table provides extra storage . . . the handsome Neo-Angle tub gives greater convenience to any bathroom.

*Center:* The unique Guestledge lavatory provides a combination vanity and lavatory specially designed for hotel or motel use.

*Bottom:* American-Standard twin lavatories relieve bathroom congestion; yet require little space for installation.



American-Standard plumbing fixtures come in a wide variety of sizes, styles and colors. Rigid cast-iron bath tubs, thickly coated with regular or acid-resisting enamel, and genuine vitreous china lavatories and toilets provide the ultimate in sanitary standards for homes, apartments and hotels.



*Top:* A cast iron sink with under-sink cabinet. This model has a double bowl and double drainboard. It is available in a variety of colors.

*Center:* Here the newest design in bathrooms includes the convenient dental lavatory at left and the Neo-Angle bath tub.

*Bottom:* Convenience is one of the features of this modern bathroom equipped with a Symphony lavatory and a Master Pembroke bath tub.



Cast iron sinks made by American-Standard fit the needs of today's modern kitchen. Produced in a wide variety of designs, colors and sizes, they provide the utmost in convenience for the homemaker.





*Top:* Inconspicuous baseboard panels furnish clean, healthful, evenly distributed heat to all rooms in a home using this modern hot water heating system.

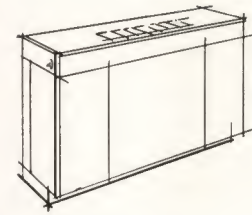
*Center:* Precision-made cast iron boilers by American-Standard provide heating comfort for any home with any fuel. Compact and enclosed in a beautiful all-steel jacket, these boilers are ideal for installation in game room, utility room, den, workshop, or garage.

*Bottom:* The Remotaire Room Conditioner both heats and cools—provides year 'round comfort for homes, institutions, and business establishments. The Remotaire features individual room temperature control.

Heating and cooling for year-round comfort and health are provided by a full line of modern equipment manufactured by American-Standard. Regardless of season, products of the Plumbing and Heating Division make it possible for homes, offices, hotels, and other buildings to enjoy complete air conditioned comfort.

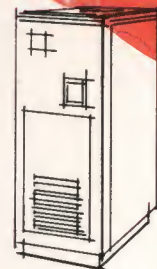






*Top:* For offices a Remotaire Room Conditioner provides year 'round comfort. With its compact, modern styling, the Remotaire blends into any decorative scheme.

*Bottom:* Here is a double Remotaire installation. Remotaire Room Conditioners also are easily installed fully recessed in the wall or completely concealed in closets or false ceilings.



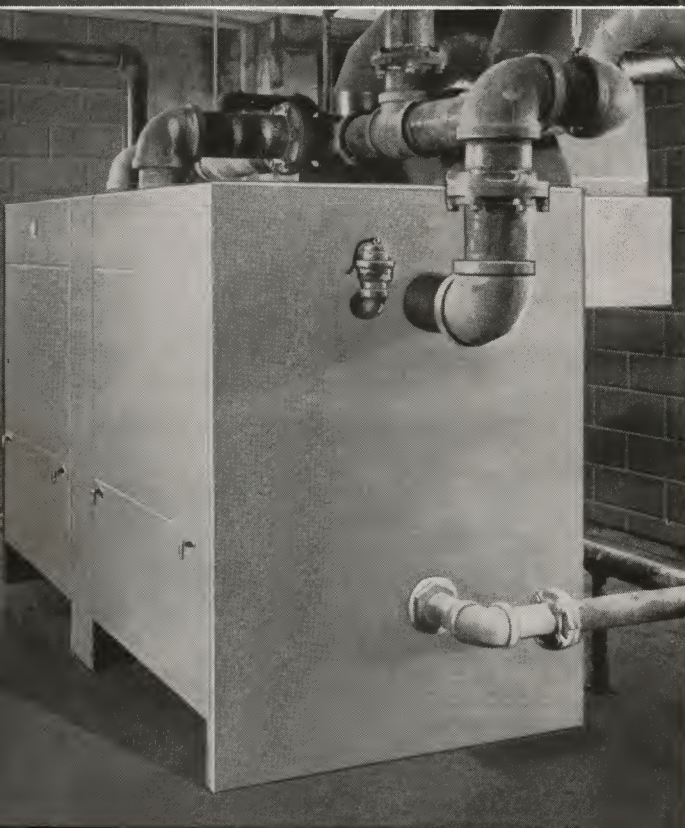
Office buildings, hotels, motels, and many other establishments benefit from the seasonal comfort provided by American-Standard's efficient heating and cooling systems. Attractive cabinets add to the beauty of the decorative scheme.





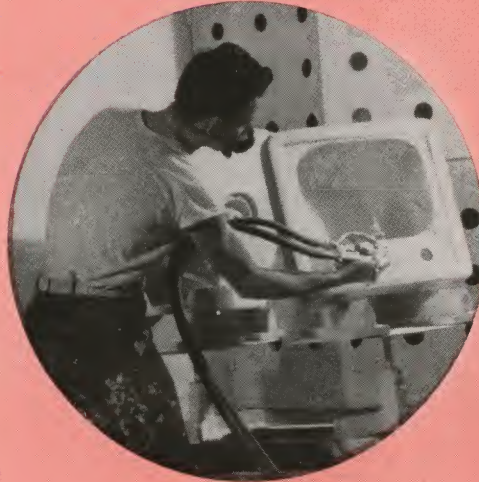
*Top:* Surgeon's scrub-up sinks are easy to use and very durable. They are typical of the complete line of hospital fixtures made by American-Standard.

*Bottom:* Hot water or steam for heating or for a variety of industrial and commercial purposes is produced economically in precision made cast iron boilers by American-Standard. With models for any fuel, these boilers can be installed singly, or in batteries of any size.



Plumbing fixtures for institutional and commercial use are among the many items of sanitation, heating and cooling equipment produced by American-Standard. Pictured here is the Sanistand fixture, a new urinal for women's rest rooms, which is finding favor among fastidious women everywhere.





*Top Left:* Liquid glaze is being applied to a bisque ware lavatory at the Tiffin, Ohio plant. The fixture is then placed in the kiln for baking.

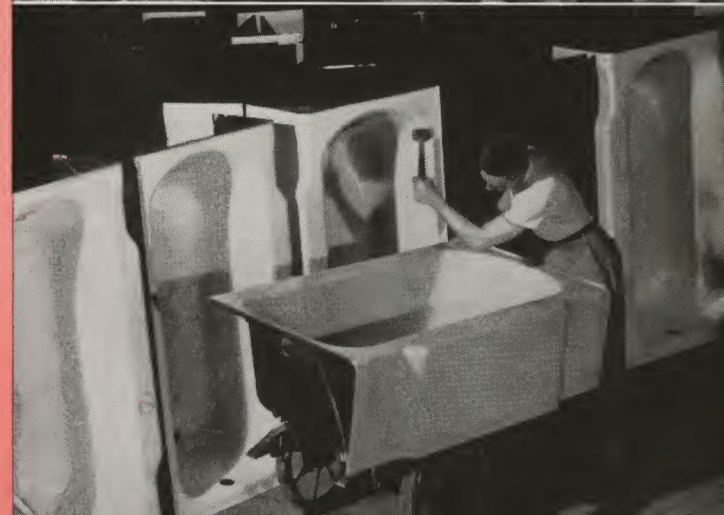
*Bottom Left:* Cast iron sections of boilers must fit together tightly. Here a precision instrument is used to check measurements on a section.



*Top Right:* Modern manufacturing methods characterize all American-Standard operations. This picture shows one step in the production of heavy-duty steel water heater tanks.

*Center Right:* Final touches are being made on a sand mold in a foundry operation.

*Bottom Right:* Rawhide hammers are used in final testing of bathtubs and other enameled cast-iron fixtures. This determines how well the enamel is bonded to the iron. Only quality fixtures pass this rugged test.







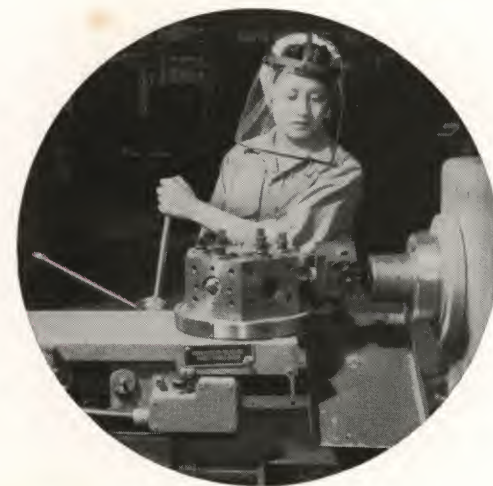
*Top Left:* Powdered enamel is dusted over a red-hot bathtub. The powder melts and fuses to the iron. The tub is returned to the furnace again and comes out smooth and glistening.

*Center Left:* Precision parts are tested for size and roundness.

*Bottom Left:* Here a glaze is sprayed on a vitreous china toilet bowl.

*Top Right:* Skilled operation of machine tools is an essential phase in the production of top quality plumbing fixtures.

*Bottom Right:* Grinding of castings is part of the finishing operation on cast iron bathtubs.







# Ross Heat Exchanger Division

This operating division of American-Standard has a long record of pioneering progress in equipment which cools, condenses or heats fluids. The manufacture and development of heat exchangers for virtually any purpose, surface condensers and related equipment are the main activities of the Ross Heat Exchanger Division.

Ross exchangers make more efficient and productive such diverse operations as diesel locomotives, electricity and gas plants, pipelines, automobile manufacturing, food processing and drug making. Wherever there is need for heating, cooling, or condensing a fluid by means of another fluid, there is work for a Ross Heat Exchanger.

The Ross name is known for a long line of "firsts" in the heat exchanger field. In 1929, the company was first to introduce all-welded steel surface condensers, now standard in the industry; it was first to standardize small heat exchangers, and first to apply assembly line methods to their manufacture. It also launched the practice of maintaining stocks of standard exchangers for immediate shipment, a radical step which improved service to customers everywhere.

The exchangers, surface condensers and related equipment are manufactured in the Ross plant in Buffalo, N. Y. Direct factory branch houses, staffed by heat transfer experts, are maintained in several cities, with specially trained manufacturers' representatives in other leading cities in the United States and Mexico. In Canada, Ross products are distributed by American-Standard Products (Canada) Limited.

**BAROMETRIC CONDENSERS**

**COILS**

**CONDENSERS**

**COOLERS**

**DECALORATORS**

**DEODORIZERS**

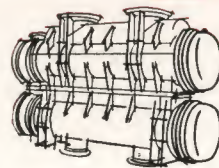
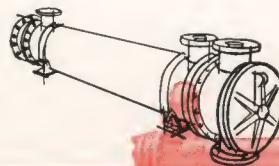
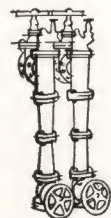
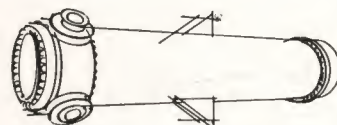
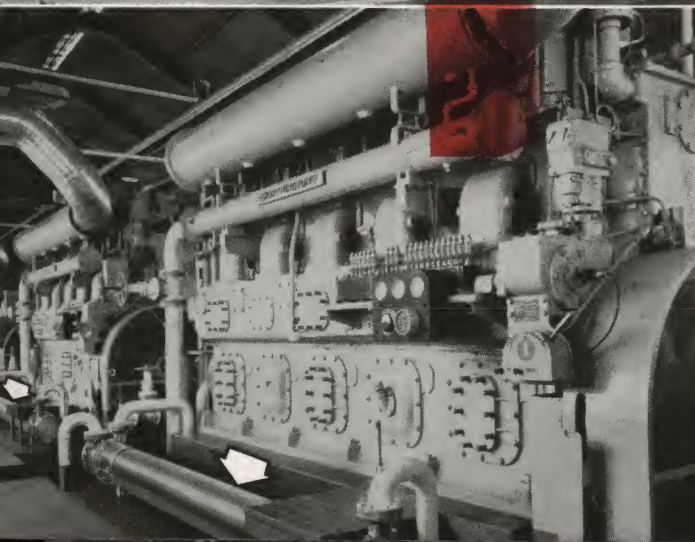
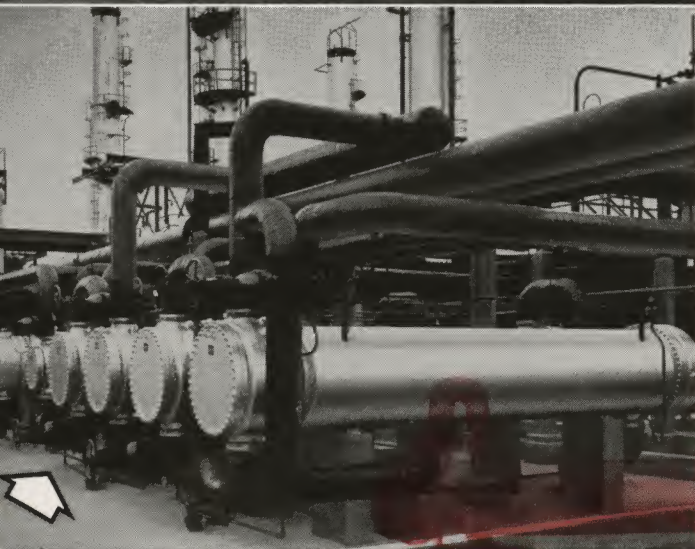
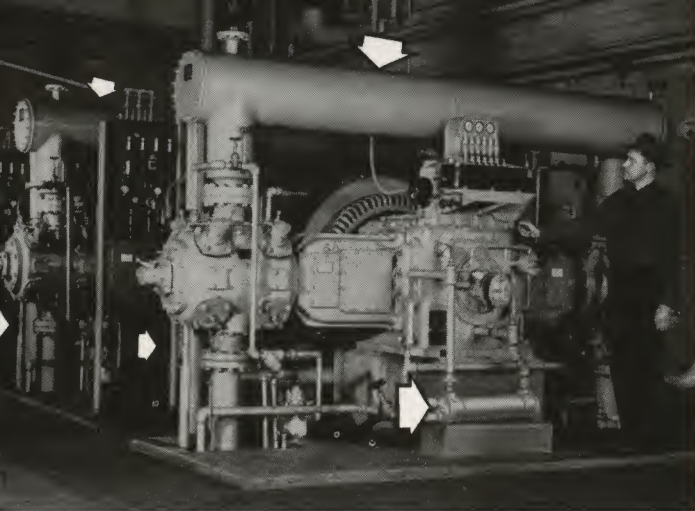
**HEAT EXCHANGERS**

**HEATERS**

**STEAM JET EJECTORS**

**WATER HEATERS**

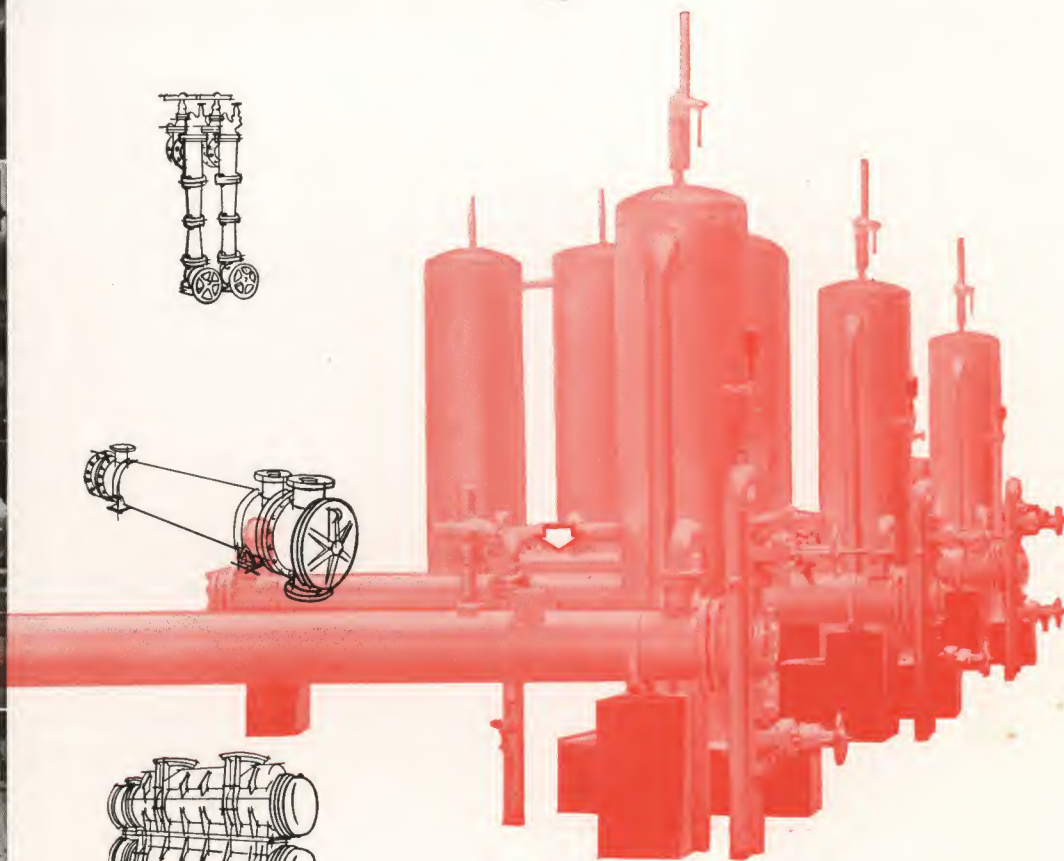




*Top:* Ross cylinder mounted intercooler and oil cooler are seen here on compressors.

*Center:* Specially engineered, heat exchangers designed for use in a petroleum refinery.

*Bottom:* These gas engine compressors are equipped with Ross lube oil coolers.



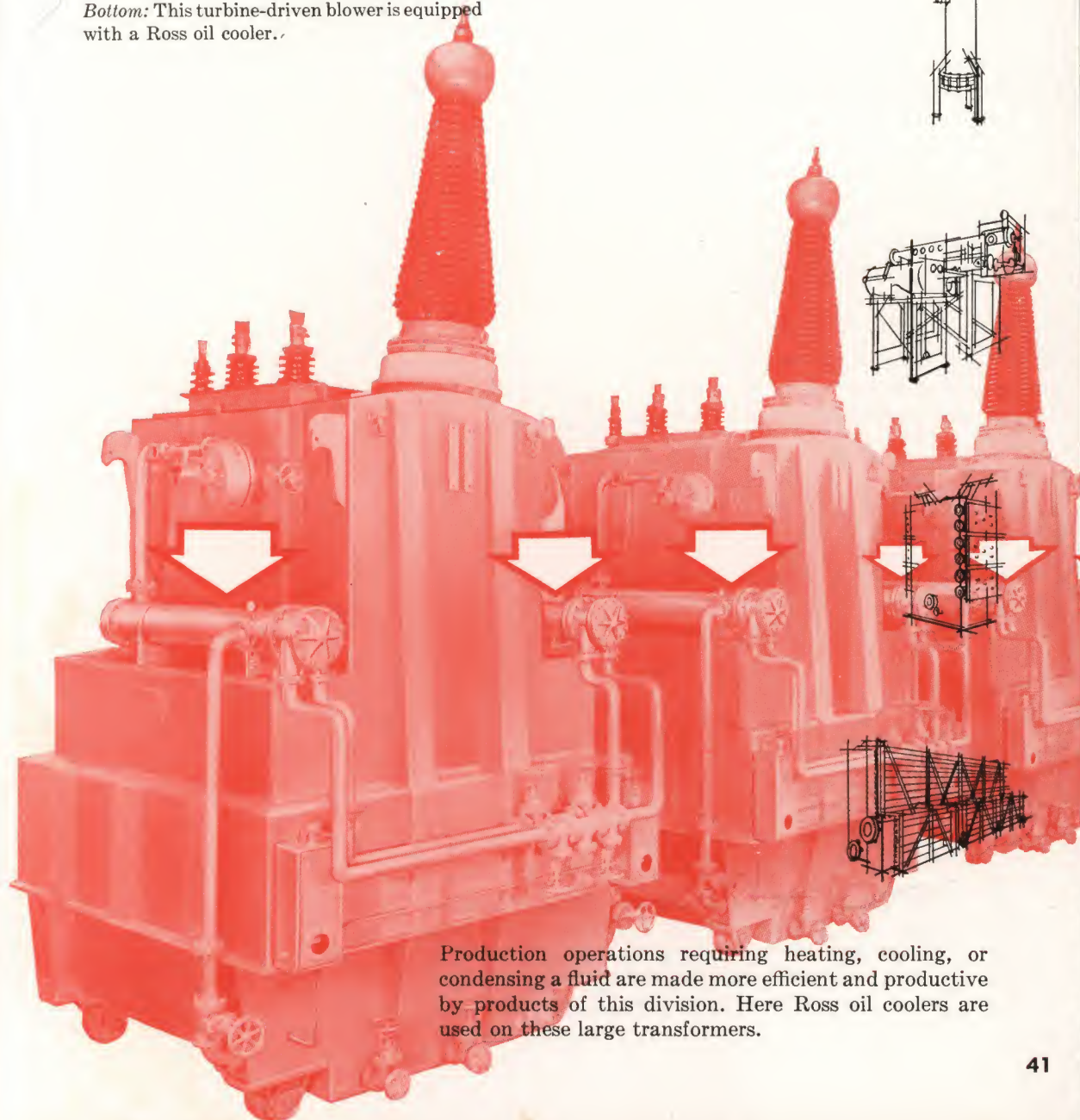
Products of this Division contribute to industry's diverse needs where heat transfer operations are involved. Ross oil coolers shown here serve industrial compressors.



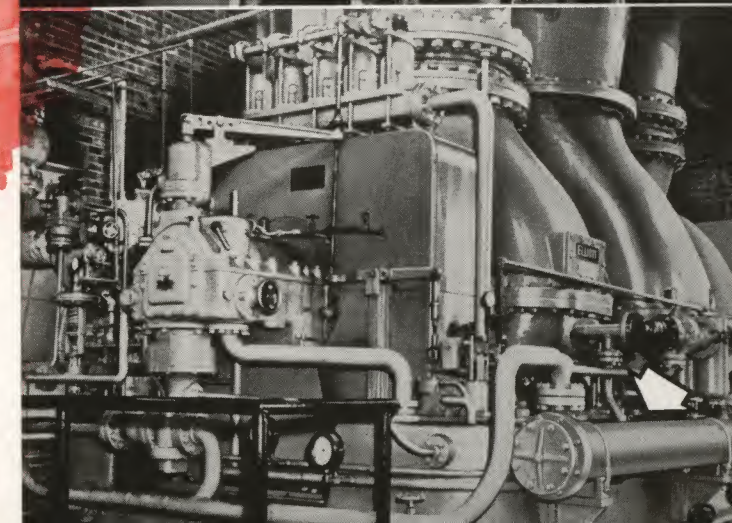
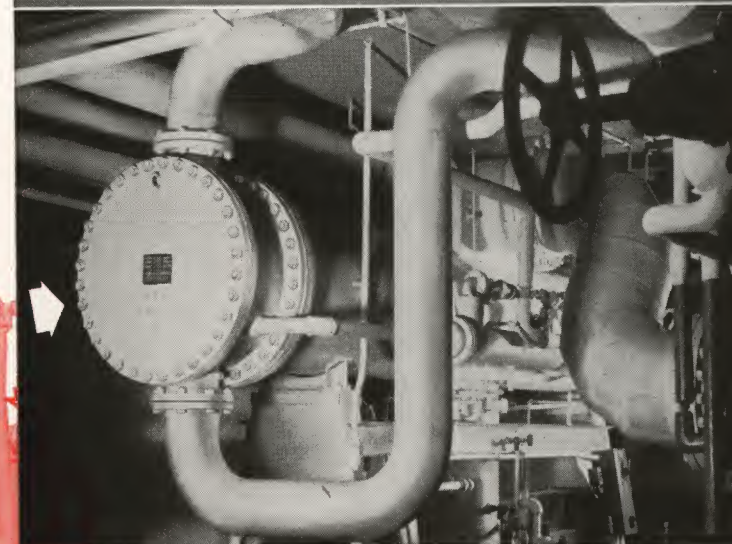
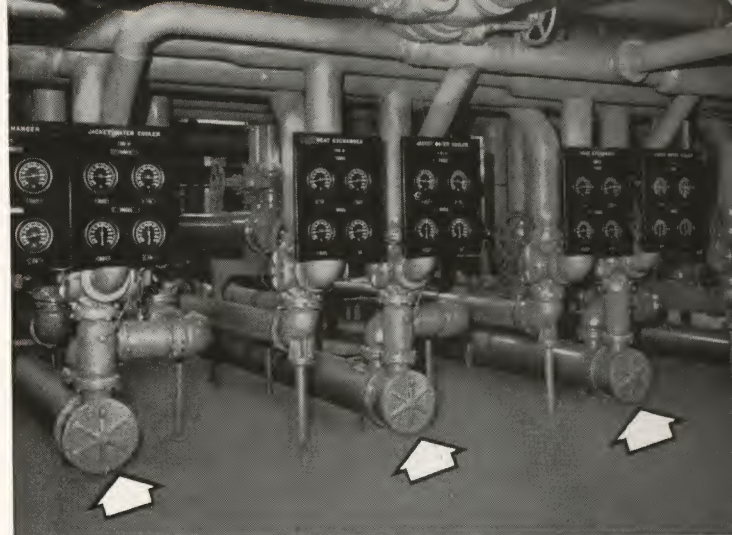
*Top:* Ross exchangers cool lube oil and jacket water for dual fuel diesels.

*Center:* A Ross surface condenser in a New York office building.

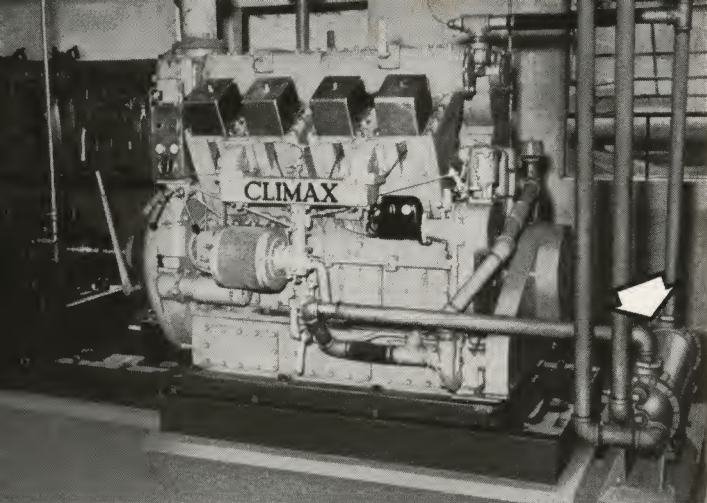
*Bottom:* This turbine-driven blower is equipped with a Ross oil cooler.



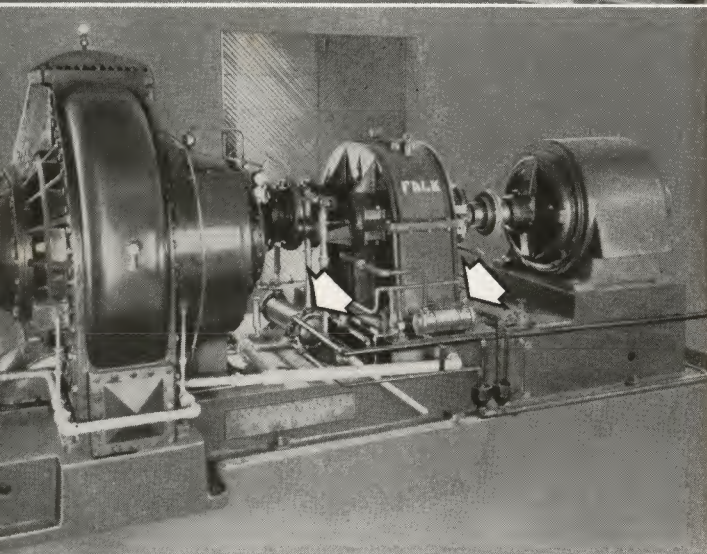
Production operations requiring heating, cooling, or condensing a fluid are made more efficient and productive by products of this division. Here Ross oil coolers are used on these large transformers.



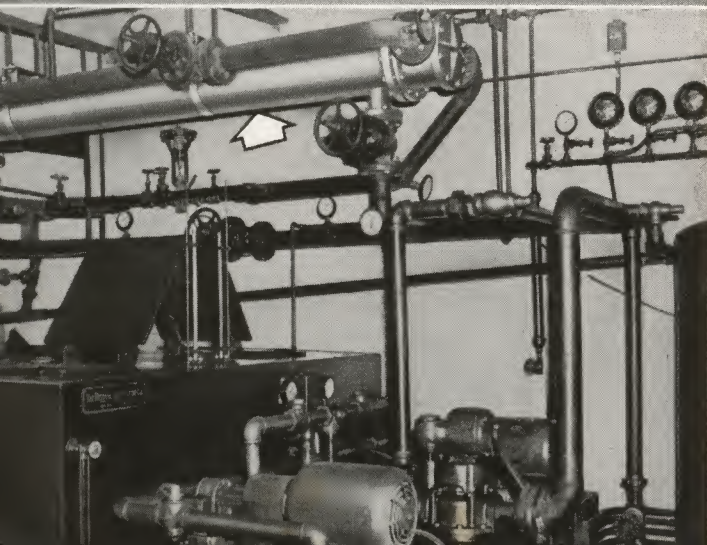




*Top:* A Ross jacket water cooler is used on a propane-burning engine.



*Center:* Ross oil coolers are seen on both the blower and the speed reducer.



*Bottom:* This mill lubrication system is equipped with a Ross oil cooler.



Heat exchangers, surface condensers and related equipment are manufactured at the Ross plant in Buffalo, which was the first to use standardization and assembly line methods in producing equipment of this type. Here a Ross surface condenser is used in a modern petroleum refining plant.





## Tonawanda Iron Division

A producer of top quality pig iron, Tonawanda Iron Division produces the raw material for bath tubs, boilers and other cast iron products. It operates today as a division of American-Standard, which it joined in 1923.

The plant at North Tonawanda, N. Y., on the shores of Lake Erie near Buffalo, annually turns out thousands of tons of iron known for its strength and soundness. Not only American-Standard, but other quality manufacturers are steady customers because of the better service, longer life and attractive appearance of products made from Tonawanda Iron.

Specially selected iron ore is transported to the North Tonawanda furnaces. There it is melted, refined and molded for shipment.

As a basic supplier, Tonawanda plays an important role in the American-Standard family of products, for good heating equipment and sturdy plumbing fixtures are possible only when they are made from sound raw material.





*Top Left:* Iron ore is delivered by steamer at the Lake Erie dock.



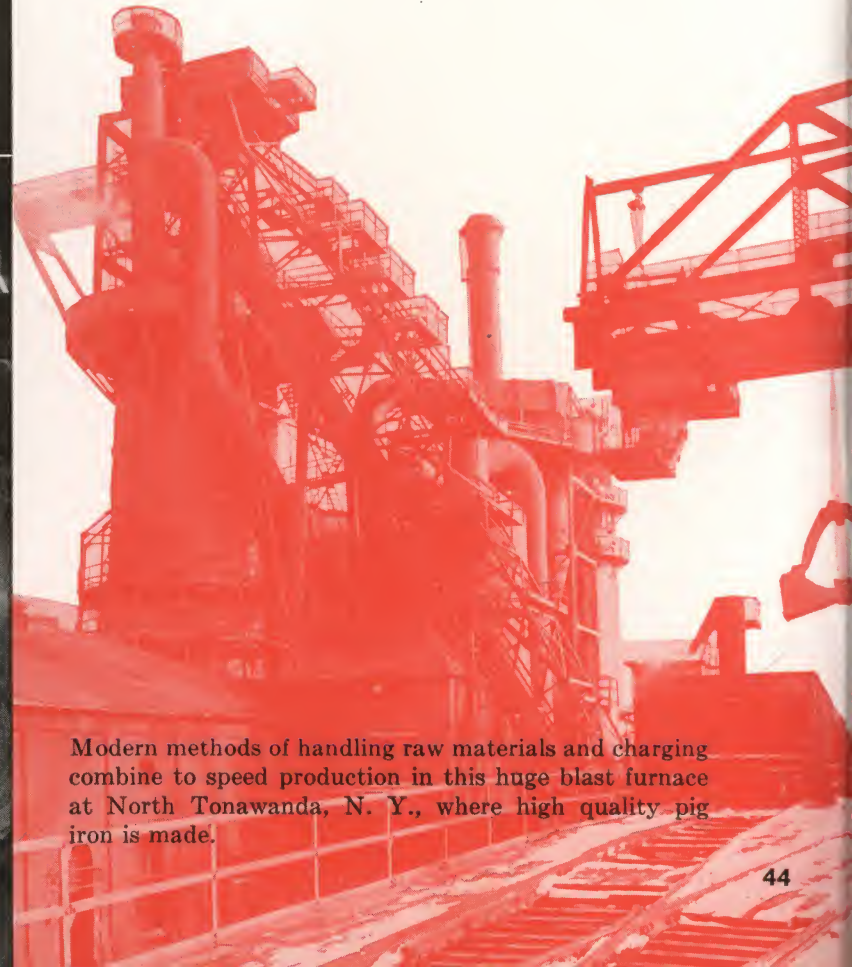
*Top Right:* Molten metal from the furnace is carried to a conveyor assembly of pig molds for continuous pouring. Uniform pig size is assured by careful synchronization of conveyor speed and metal flow.



*Bottom Left:* High standards of quality are maintained through constant analysis and inspection. Here a technician runs a test on several samples.



*Bottom Right:* White-hot liquid metal pours from the blast furnace into ladles for transport to the conveyor assembly of pig molds.



Modern methods of handling raw materials and charging combine to speed production in this huge blast furnace at North Tonawanda, N. Y., where high quality pig iron is made.





**CABINET SINKS**  
**BASE CABINETS**  
**WALL CABINETS**  
**BASE CABINET TOPS**  
**UTILITY AND SPECIAL-PURPOSE CABINETS**  
**PORCELAIN-ON-STEEL SINK TOPS**  
**DISHWASHERS**  
**FOOD WASTE DISPOSERS**  
**PORCELAIN ENAMELING**  
**STEEL STAMPINGS**

# Youngstown Kitchens Division

The Youngstown Kitchens Division, which joined the American-Standard family early in 1956, is the world's leading maker of steel kitchens. It pioneered both in the manufacturing and merchandising of household kitchen equipment, and the brand name is widely recognized as a pace setter in its field.

Sold through franchised wholesale distributors throughout the United States and Canada, the Youngstown Kitchens line has its principal markets in new home construction and in kitchen remodeling. These are reached through thousands of retail dealers.

Products include cabinet sinks, base and wall cabinets, cabinet tops, special-purpose cabinets, dishwashers and food waste disposers.

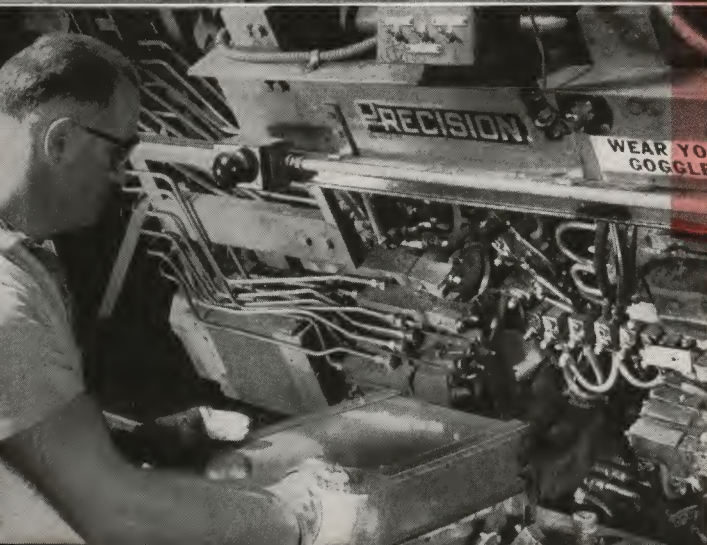
Steel kitchens account for the largest share of the Division's business. The Division also produces steel stampings on a contract basis for the automotive, appliance, and agricultural machine industries. It operates an ordnance plant where shells are produced for the armed forces by the Division's Koldflo process of cold extruding steel.

Administrative offices are in Salem, Ohio, where the firm, formerly Mullins Manufacturing Corporation, was founded in 1872. Principal manufacturing is in two plants in Salem and two plants in Warren, Ohio.

The Division also operates cabinet plants in Dover, N. J. and Blue Island, Ill. These plants are equipped to produce special-purpose items for the Youngstown Kitchens line and to fabricate other sheet metal products.



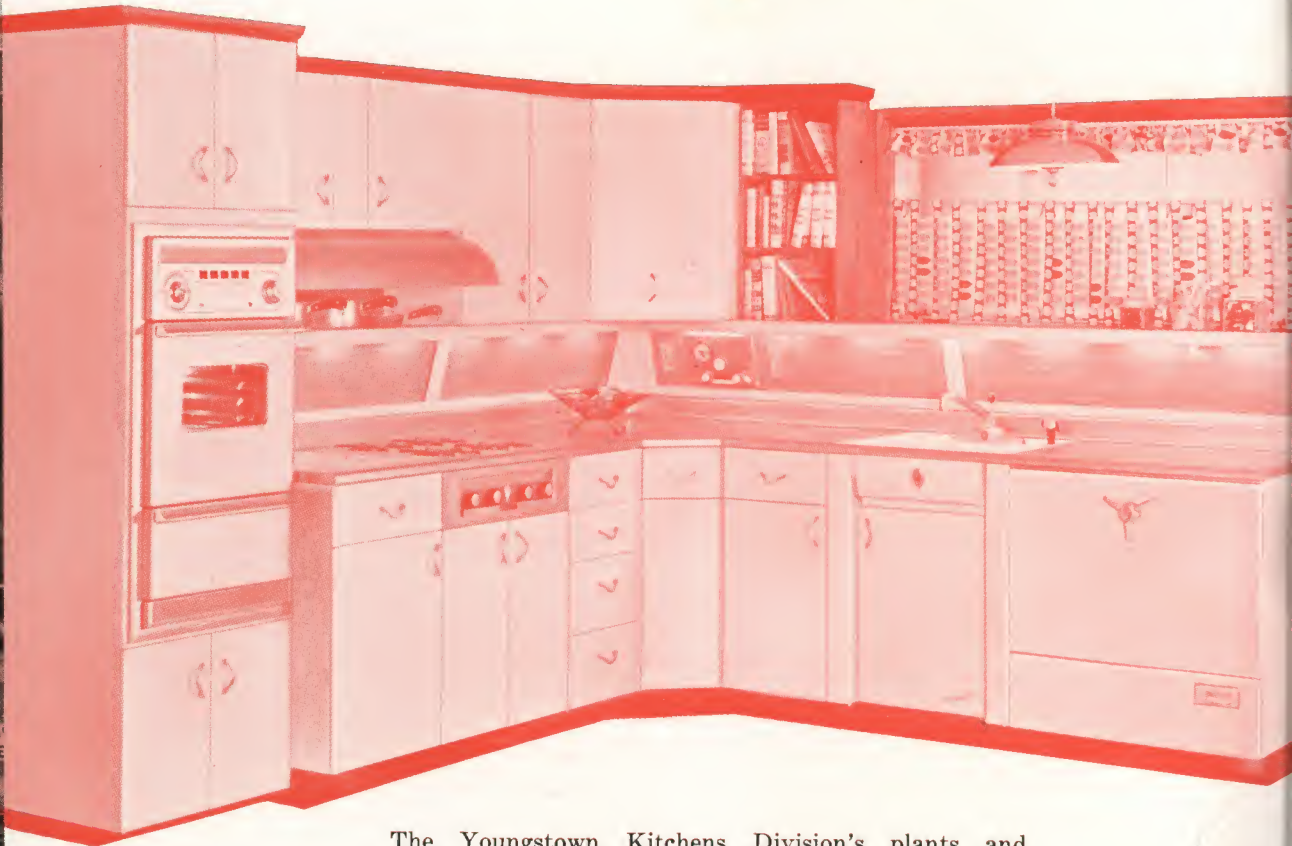




*Top:* Sink tops and undersink cabinets come together on the final assembly line, ready for packing and shipment.

*Center:* On a conveyor, assembled cabinets move through a spray booth where durable synthetic enamel is evenly applied.

*Bottom:* Cabinet drawers take shape on the assembly line as component parts, securely held in especially-designed jigs, are automatically welded.



The Youngstown Kitchens Division's plants and facilities are geared for mass production of a wide range of factory-finished cabinet sinks and storage units. All units are delivered ready for installation, creating kitchens both beautiful and practical.



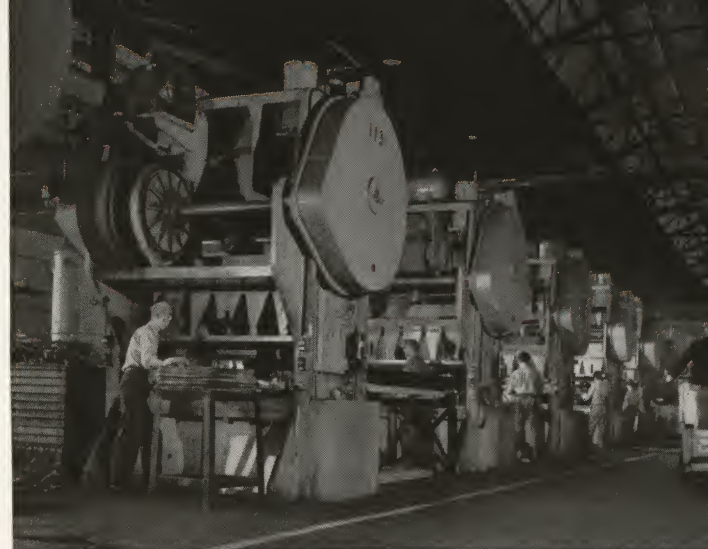
*Top:* Lines of presses speedily and precisely form the steel cabinet parts that flow to the assembly lines.

*Center:* Conveyors carry Youngstown Kitchens wall cabinets on their way to the painting booths and baking ovens. Both overhead and floor conveyors are used in the plants to keep handling to a minimum.

*Bottom:* Dishwasher production operations utilize mass production techniques, illustrated here by the moving dishwasher assembly line.



Filling out the complete Youngstown Kitchens line are an automatic dishwasher and an electric food waste disposer.





*Top Left:* In another phase of the Division's operation, steel stampings are made on a contract basis for other manufacturers. Truck fenders are among these products, turned out in quantity on the Division's large press facilities.

*Top Right:* Among automotive stampings produced by the Division are truck and tractor grilles.

*Bottom Left:* With more than 85 years' experience in the metal working field, the Division operates large tool and die shops, equipped to produce tools, dies and fixtures of any size and complexity.

*Bottom Right:* Conveyor systems move pieces from press to press and through other operations in the making of shells by the Koldflo process of cold extruding steel.







# Research and Development

## RESEARCH FACILITIES

**CINCINNATI, OHIO**  
**LOUISVILLE, KENTUCKY**  
(Plumbing and Heating Division)  
**DETROIT, MICHIGAN**  
**NORWOOD, MASSACHUSETTS**  
**REDWOOD CITY, CALIFORNIA**  
(Detroit Controls Corporation)  
**HOLYOKE, MASSACHUSETTS**  
(C. F. Church Division)  
**DEARBORN, MICHIGAN**  
**COLUMBUS, OHIO**  
(American Blower Division)  
**BUFFALO, NEW YORK**  
(Ross Heat Exchanger Division)  
**KEWANEE, ILLINOIS**  
(Kewanee Boiler Division)  
**REDWOOD CITY, CALIFORNIA**  
(Atomic Energy Division)  
**SALEM, OHIO**  
(Youngstown Kitchens Division)

Emphasis on research has been a major factor in the development and growth of American-Standard through the years. Today, the corporation is more aware than ever of the importance of continually seeking the new and the better.

Individually and through cooperative work on projects of common interest, the operating divisions are constantly broadening the scope and volume of research.

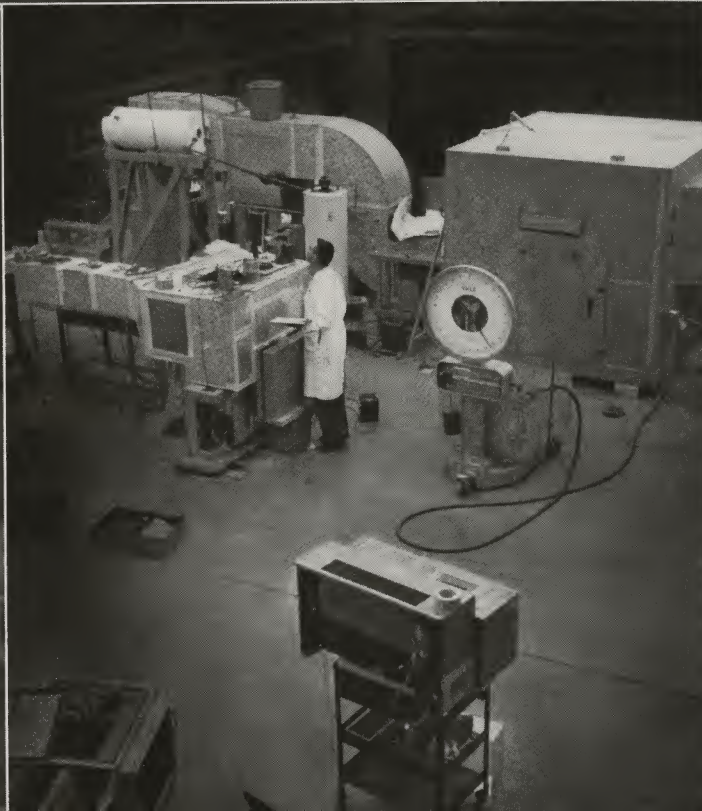
American-Standard activities in the field of research and development are conducted in three major categories: experimental work with production techniques and processes; experimental work with materials; and product design and development.

In each of these areas the engineers strive to maintain the American-Standard tradition of pioneering and accomplishment by improving existing products and developing new ones to meet the demands of an expanding economy.

In working toward the achievement of these objectives, the various operating divisions of American-Standard maintain separate and specialized research facilities. Coordination of the activities of these facilities and long range research pioneering, in new ideas, processes and materials is carried on by the research division of the Corporation.

This continuous search for new and better products extends also across the Atlantic to England and France where plumbing and heating research is carried on in two modern laboratories.







(To the left)

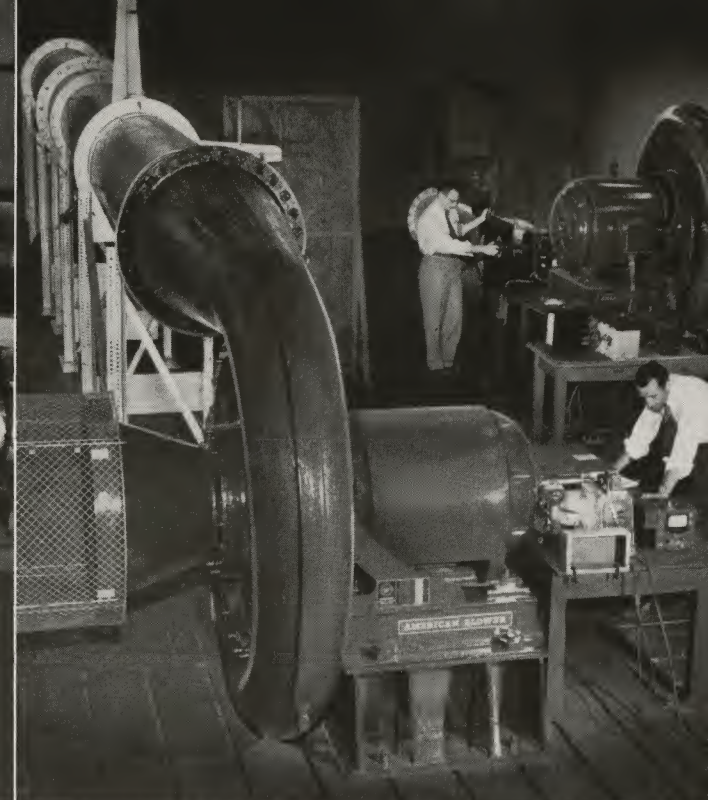
**Top Left:** Experimental work is conducted in a special cold room to determine conditions of comfort and temperature gradients.

**Top Right:** A corner of the hydraulic laboratory where quantitative tests are made.

**Bottom Left:** Making a test batch of enamel.

**Bottom Center:** Determination of air volume in an air conditioning unit.

**Bottom Right:** Sifting enamel for use in testing purposes.



(To the right)

**Top Left:** Research work includes development testing of an air-to-air heat exchanger.

**Top Right:** Performance tests are being run on two single-stage Centrifugal Compressors.

**Bottom Left:** This shows a ventilating fan test set-up for measuring the efficiency of an industrial fan.

**Bottom Right:** A technician is operating a dynamometer control panel in checking the operation of a Fluid Drive on the test stand.



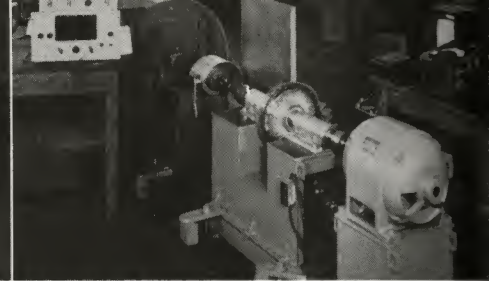
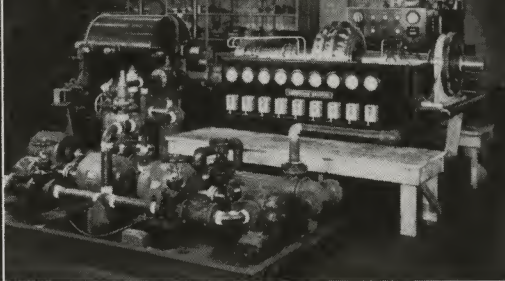
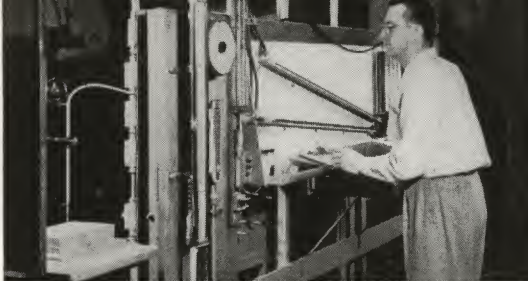


*Reading left to right)*

Special instruments are used for testing air delivery of fans.

A test set-up to check the lubrication and fill system of a Fluid Drive.

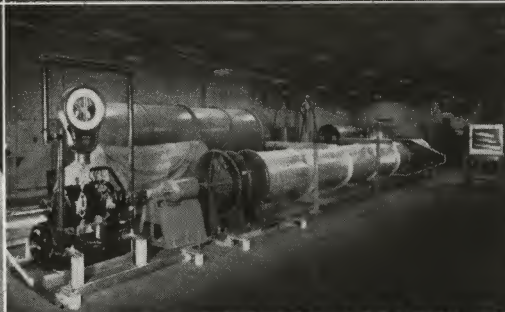
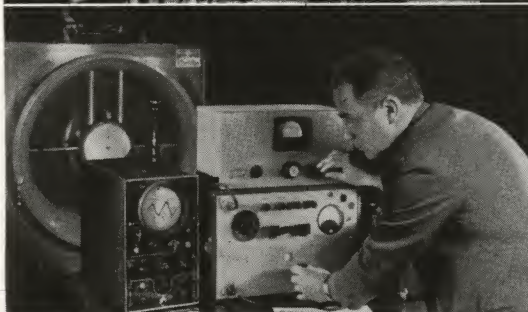
This is a plastic model Gyrol Fluid Drive used for testing.



Sound Testing of a Vaneaxial Fan in the laboratory.

Set-up of a scale model tunnel ventilating fan.

A view of the laboratory drafting room.



The air tunnel where air is prepared to meet temperature and humidity requirements for test purposes.

Various types of gases are manufactured and stored.

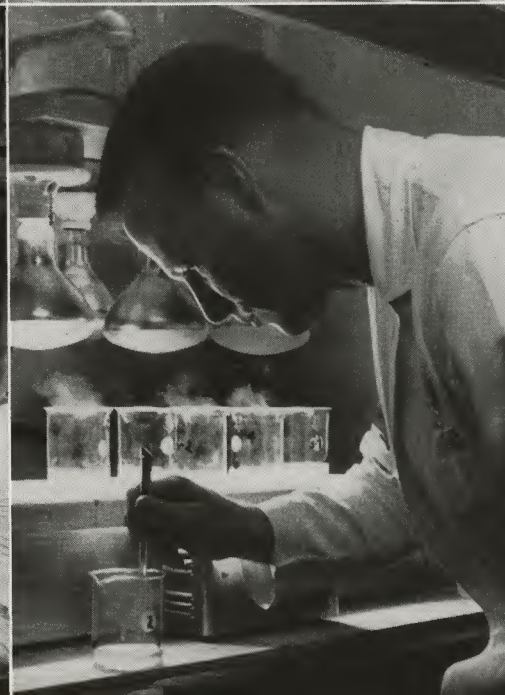
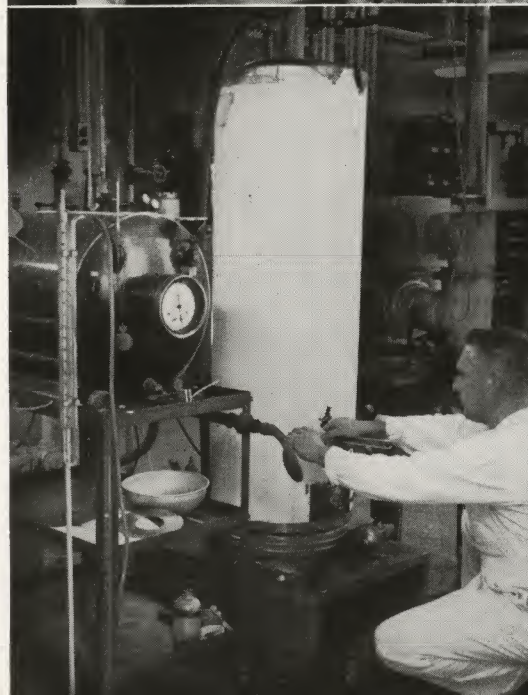
A small scale enamel testing and development set-up.



Engineering improvements on water heaters are developed in this gas lab.

Experimental test in the chemical lab.

A corner of the combustion lab.







# American-Standard Products (Canada) Limited

**AIR CONDITIONING EQUIPMENT**  
**AIR HANDLING EQUIPMENT**  
**BASEBOARD HEATING PANELS**  
**BOILERS, CAST IRON AND STEEL**  
**BURNERS, OIL AND GAS**  
**CENTRIFUGAL COMPRESSORS**  
**FLUID DRIVES**  
**FURNACES**  
**HEAT EXCHANGERS**  
**LAUNDRY TRAYS**  
**PLUMBING FIXTURES**  
**RADIATORS AND CONVECTORS**  
**SINKS**  
**SURFACE CONDENSERS**  
**WATER HEATERS**  
**WINTER AIR CONDITIONERS,**  
**RESIDENTIAL AND COMMERCIAL**

In Canada, American-Standard Products (Canada) Limited carries on manufacturing and marketing operations similar to those in the United States.

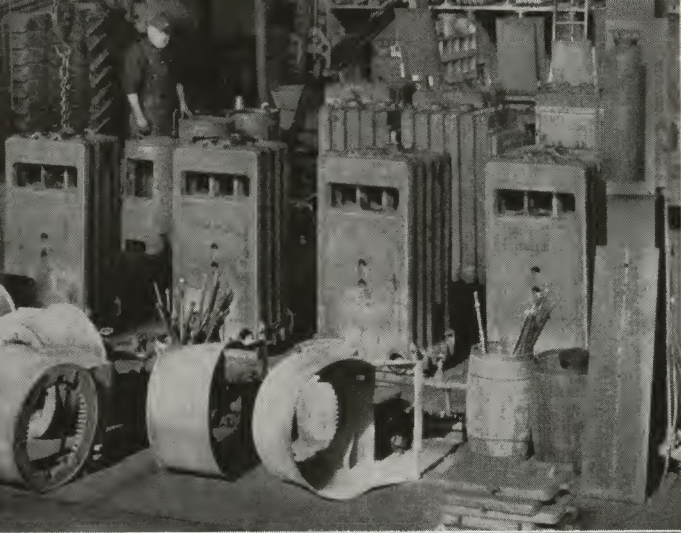
This company serves the needs of home and industry in Canada with the same high standards of quality and service maintained by the American operating divisions.

Although many of the products manufactured in Canada are very much like those made by American-Standard units in the United States, they are specifically designed to meet the needs of Canadian homes and buildings.

Three plants are operated in Toronto. Two of these plants manufacture plumbing and heating products for residential, commercial, industrial and institutional use, while the other manufactures Gurney air conditioning products which include warm air furnaces and winter air conditioning for home and industry.

Just across the border from Detroit, in Windsor, Ontario, is another plant, manufacturing Canadian Sirocco products including air conditioners, comfort cooling ventilation, industrial fans, fluid drives, dust precipitators, etc. American-Standard also supplies sales and engineering service to Canadian users of Kewanee-Ross products, which include high pressure steel boilers and heat exchangers.





*Top:* The assembly of small boilers is pictured here.



*Center:* Pottery kilns for the production of ceramics used in bathroom fixtures.



*Bottom:* Assembly line techniques are used in the pottery department of the Lansdowne plant.



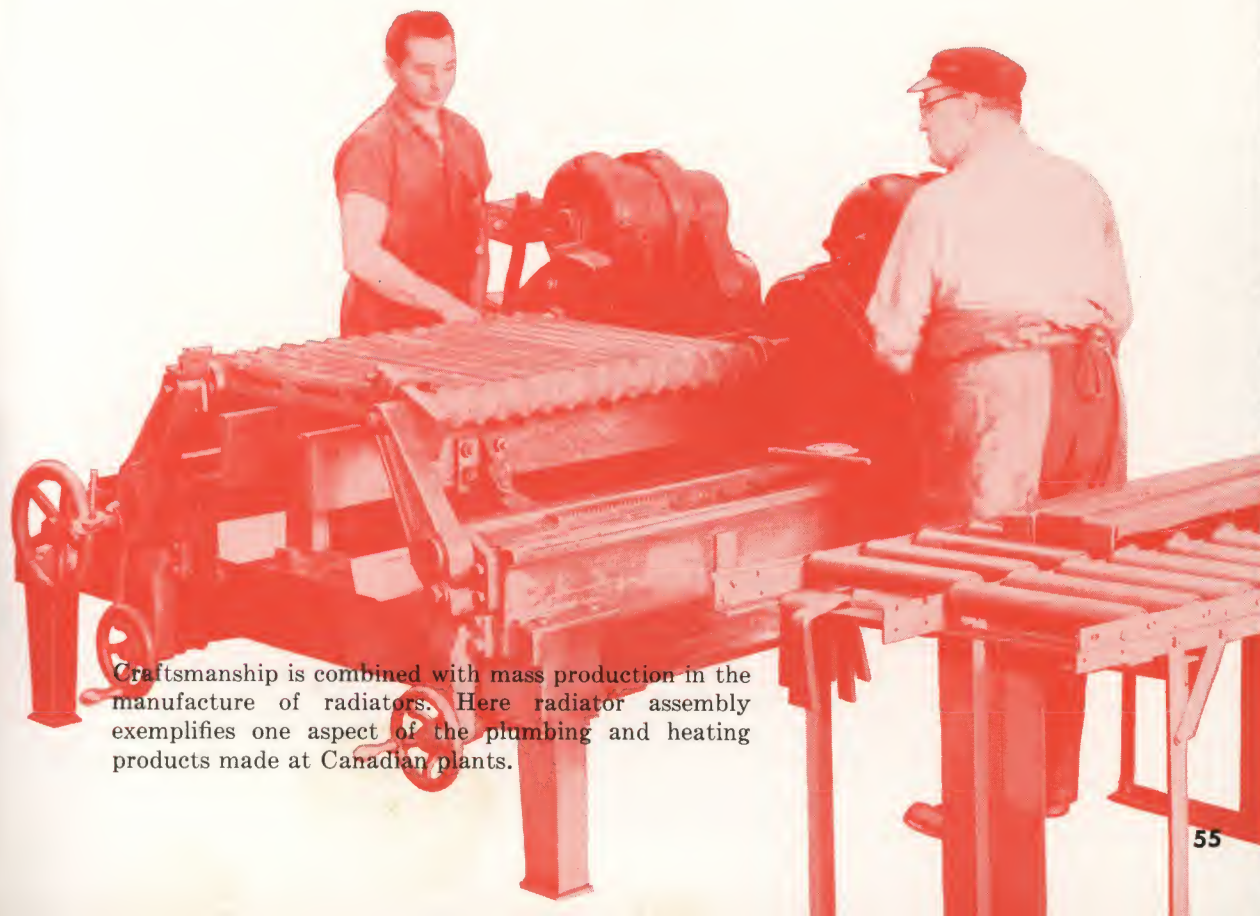
Quality control is an important element in the production of quality products at Canadian plants. Here the enamelware on a bathtub is being inspected at the Lansdowne plant.



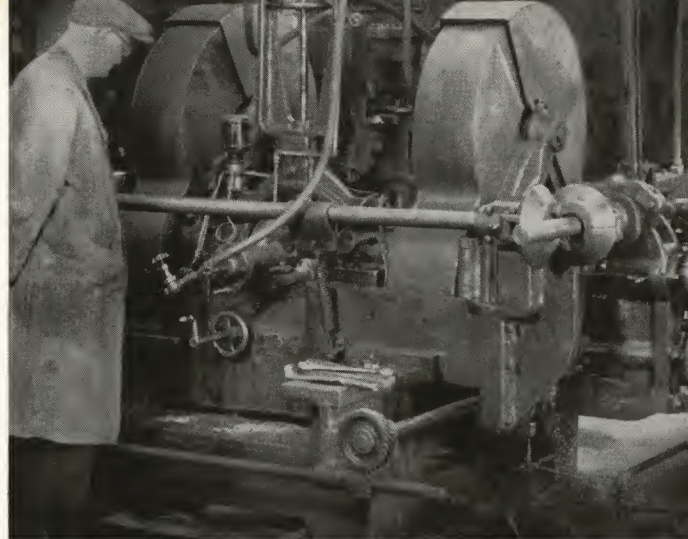
*Top:* Radiator sections are being machined at the Dufferin plant.

*Center:* A view of the steel boiler assembly at the Junction plant.

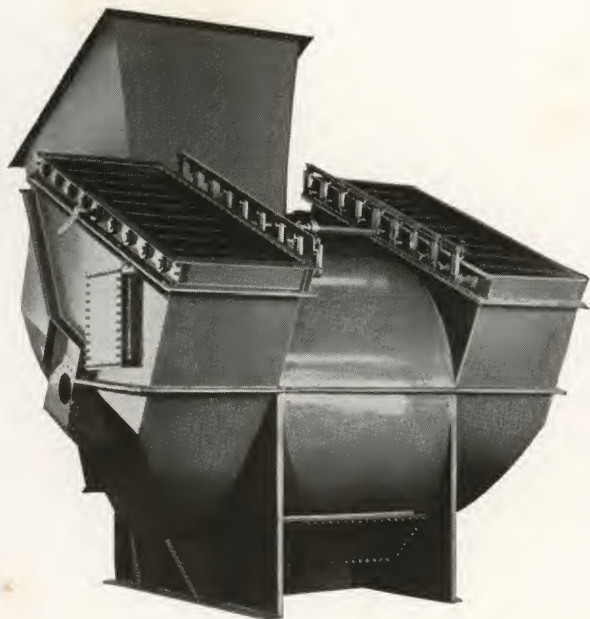
*Bottom:* Castings are lined up at the pottery shop at the Lansdowne plant.



Craftsmanship is combined with mass production in the manufacture of radiators. Here radiator assembly exemplifies one aspect of the plumbing and heating products made at Canadian plants.

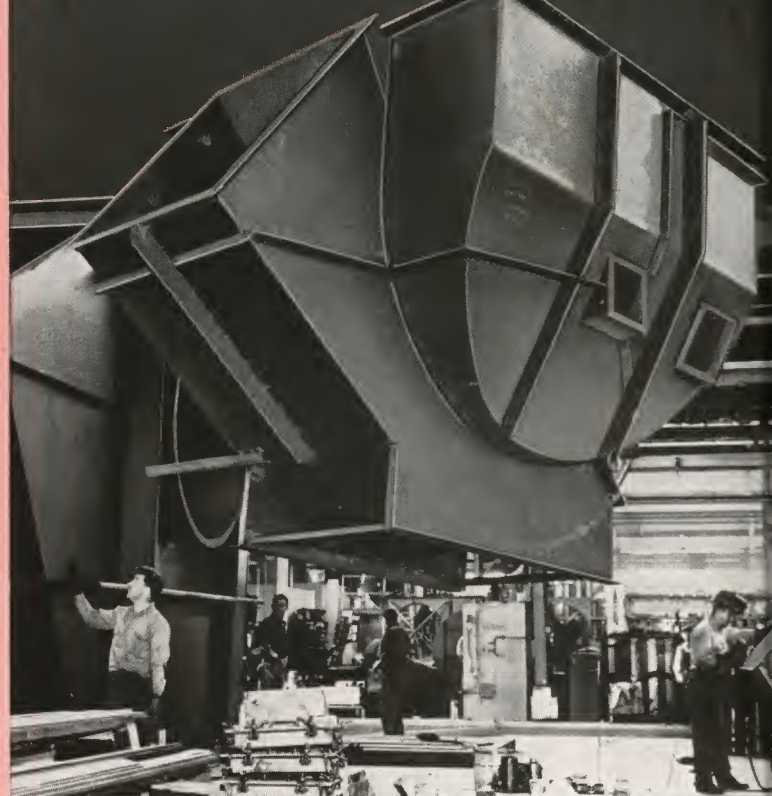




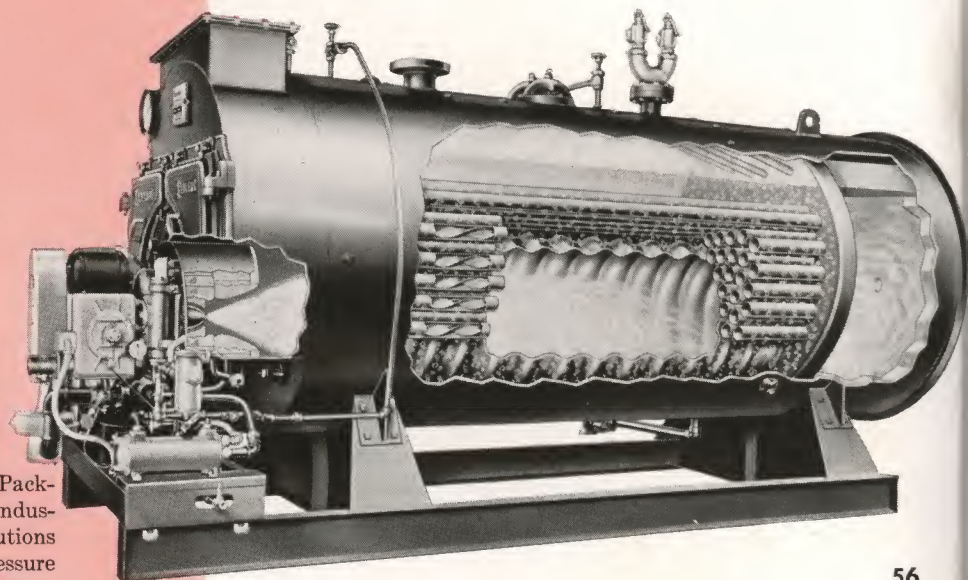
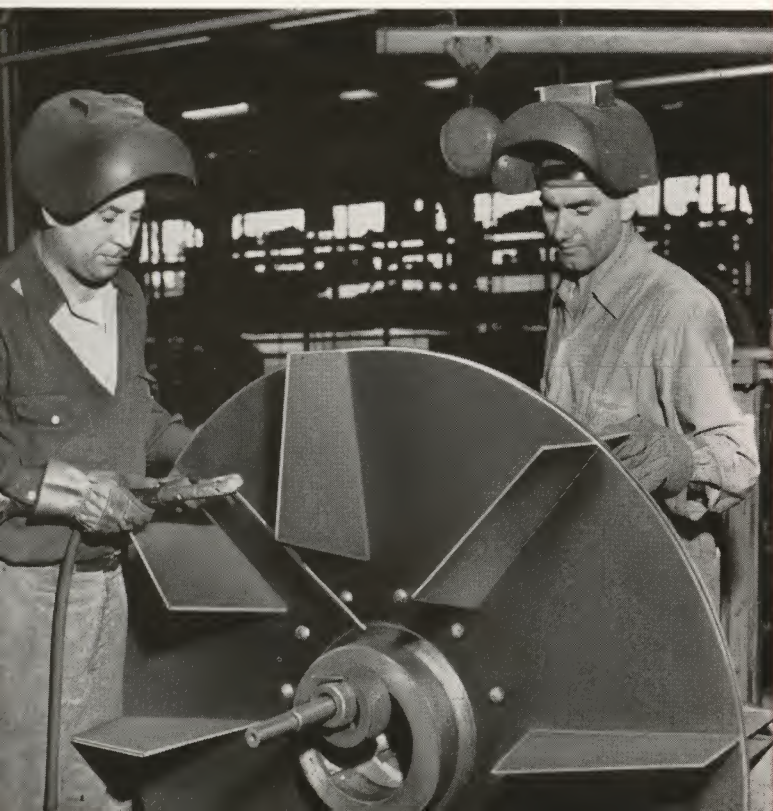


View of one section of large fan assembly floor showing Mechanical Draft Fan being fabricated.

Typical Induced Draft fan with inlet boxes and louver control. Utilized in large power plant installations.



Welders at work on heavy industrial fan wheel.



Kewanee Boiler Burner Package designed for use in industrial plants and institutions—furnishing high pressure steam for process applications and for heating.





## Foreign Divisions

**IDEAL-STANDARD GESELLSCHAFT m. b. H.**  
Vienna, Austria

**IDEAL-STANDARD S. A.**  
Brussels, Belgium

**IDEAL-STANDARD (HOLLAND) N. V.**  
Amsterdam, Holland

**IDEAL BOILERS & RADIATORS LIMITED**  
London, England

**IDEAL-STANDARD S. A.**  
Paris, France

**IDEAL-STANDARD G. m. b. H.**  
Bonn, Germany

**IDEAL-STANDARD S. p. A.**  
Milan, Italy

**IDEAL-STANDARD AKTIEBALAG**  
Stockholm, Sweden

**IDEAL-STANDARD A. G.**  
Dulliken, Switzerland

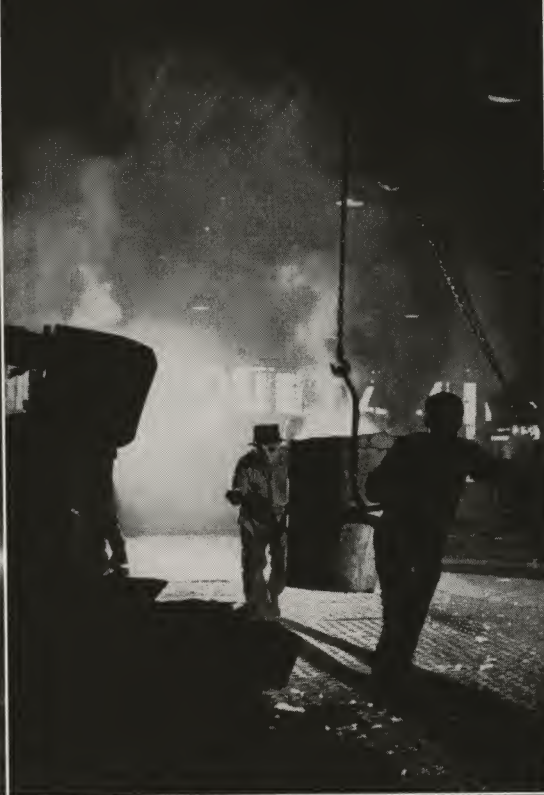
The foreign divisions of American-Standard operate in nine countries extending the length of Western Europe. All are managed and staffed entirely by citizens of the nations in which the plants are located. Their products, although similar to those made by American-Standard in the United States, are also translations for they are designed in terms of European needs and taste.

American-Standard accent on research is paralleled in Ideal-Standard which has fully-equipped research laboratories in England and France. Their work is closely coordinated with that of American-Standard U. S. research centers in a constant effort to improve existing products and develop new ones, carrying on the American-Standard tradition of pioneering both at home and abroad.

Ideal-Standard's plants employ more than 13,500 people. Those in England, France, Italy and Germany produce both plumbing fixtures and heating equipment. A recent acquisition in Germany has added commercial and industrial refrigeration to the corporation's European operations. Plants in Belgium, Switzerland and Austria manufacture heating equipment, and the two remaining companies—in Holland and Sweden—are sales organizations for both plumbing and heating equipment.

Members of the European branch of the American-Standard family contributed greatly to the reconstruction of Europe after World War II. Today they are serving the health and comfort of Western Europeans through their ever-broadening activities.

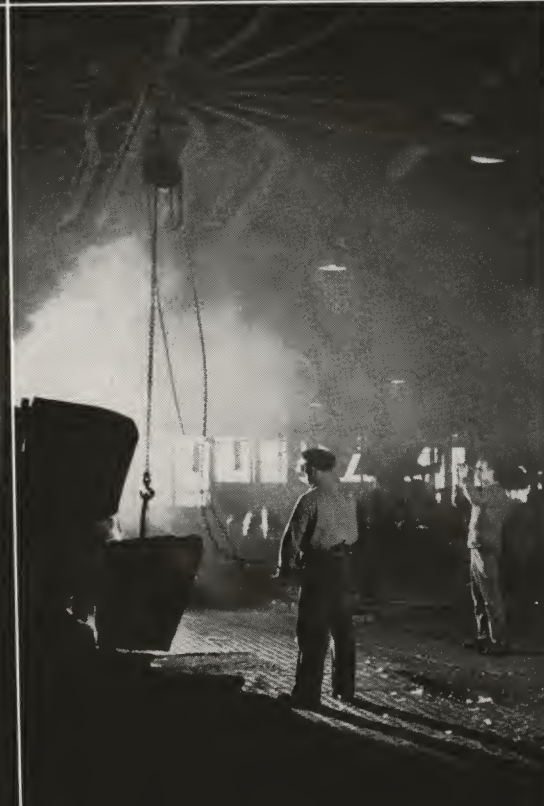




*Top Left:* A lathe operator in the maintenance department of Ideal-Standard in Belgium.

*Top Center:* Foundry men at the Aulnay plant of Ideal-Standard of France.

*Top Right:* Working on a sand core at the Vilvorde foundry of Belgium's Ideal-Standard plant.



*Bottom Left:* Sand pouring into the foundry forms for radiators in the Vilvorde foundry of Belgium's Ideal-Standard plant.

*Bottom Center:* The cupola of the foundry at one of France's Ideal-Standard plants.

*Bottom Right:* Radiator production at the Vilvorde plant of Belgium Ideal-Standard.



**Top Left:** Assembly of kitchen ranges at the Ideal-Standard plant in Aulnay, France. Design of each country's products is based on preferences of the customers.

**Top Right:** Kewanee-Ross boilers made at the Blanc Mesnil in France are here being loaded on freight cars for delivery.

**Bottom Left:** Molds for bathroom and other plumbing products are being prepared in this department of the Ideal-Standard plant in Brescia, Italy.

**Bottom Right:** A view of a molding operation in the production of sanitary fixtures at the Brescia plant of Italian Ideal-Standard.







*Top:* Mass production and modern methods of materials handling are the keynotes of the radiator machining operation at the Dammarié plant of France's Ideal-Standard.



*Center:* Ceramic and metallurgical testing are conducted at the research laboratory at the Blanc Mesnil Research laboratory in France.



*Bottom:* A view of the bathtub enameling department at Hull, Britain, in the plant of Ideal Boilers and Radiators Ltd.



The showroom of Ideal-Standard of Italy in Milan is typical of the sales demonstration facilities maintained by the various foreign members of the American-Standard family.



# Plants and Sales Offices

.....

## AIR-CONDITIONING DIVISION

### Executive Offices

40 W. 40th St., New York 18, N. Y.

### Plant

ELYRIA, Ohio  
Woodford Ave.

### Sales Offices

East Central District  
Room 107, 1807 Elmwood Ave.,  
Buffalo, N. Y.  
West Central District  
600 So. Michigan Ave., Chicago 5, Ill.,  
Room 923

## AMERICAN BLOWER DIVISION

### Executive Offices

Detroit 32, Mich.

### Plants

COLUMBUS, Ohio  
666 Marion Rd.  
DETROIT, Mich.  
8111 Tireman Ave., Dearborn  
SAN LEANDRO, Calif.  
1900 First Ave.

### Sales Offices

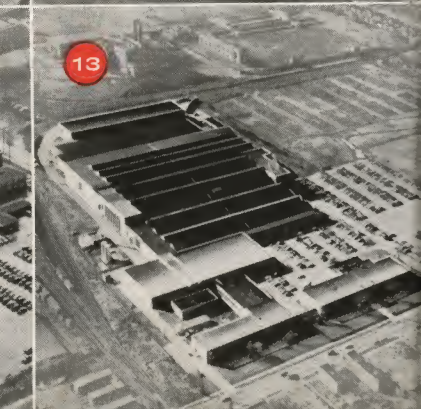
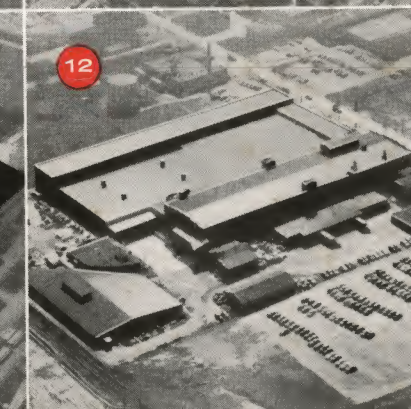
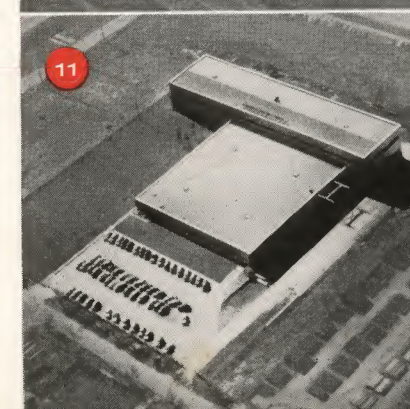
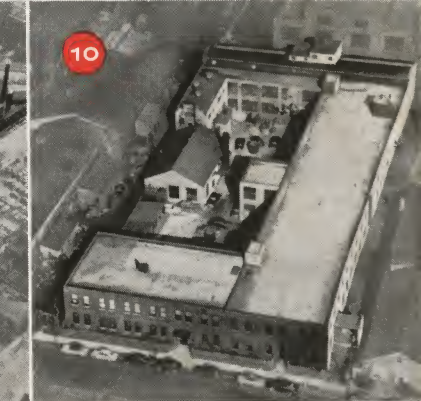
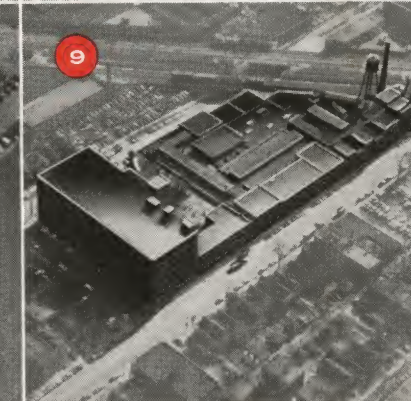
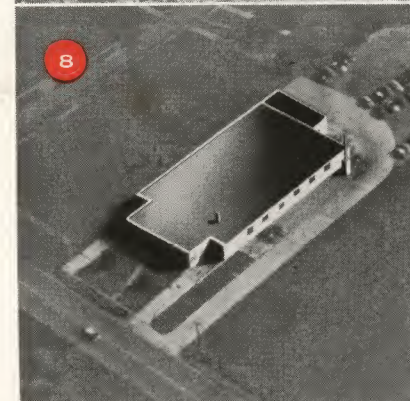
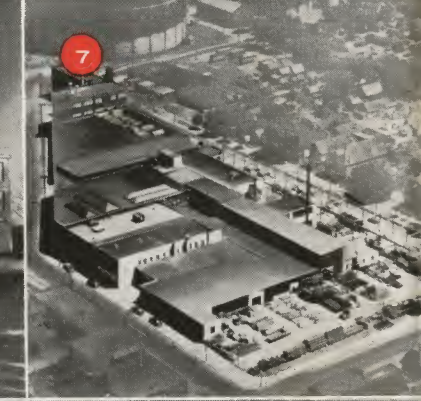
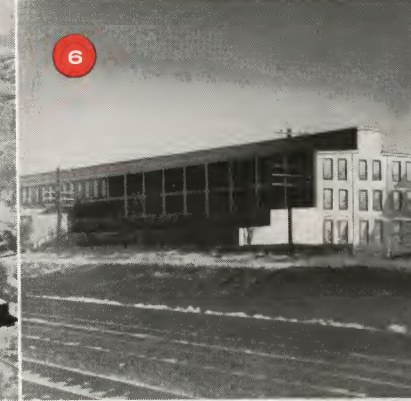
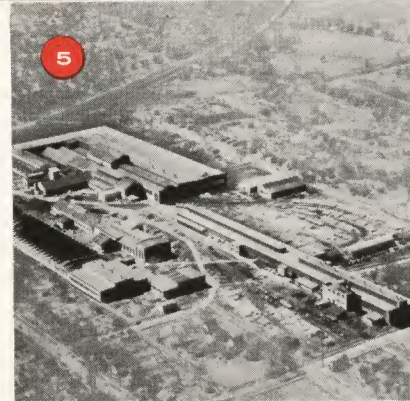
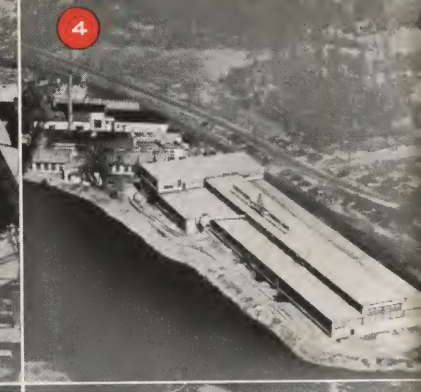
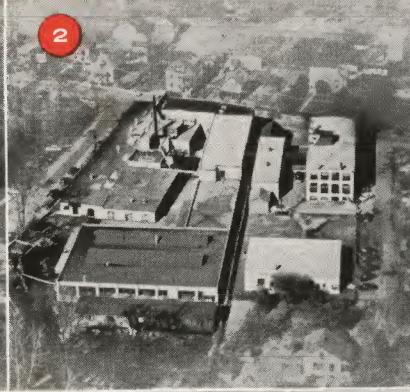
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ATLANTA 5, Ga.  
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BALTIMORE 18, Md.  
2510 St. Paul St.  
BILLINGS, Mont.  
Room 3, M and R Bldg.  
BIRMINGHAM 15, Ala.  
1206 S. 20th St.

BOSTON 16, Mass.  
20 Providence St.  
BUFFALO 2, N. Y.  
220 Delaware Ave.  
CHARLESTON 23, W. Va.  
1029 Virginia St. E.  
CHARLOTTE 2, N. C.  
200 So. Tryon St.  
CHICAGO 1, Ill.  
228 N. LaSalle St.  
CINCINNATI 2, Ohio  
1005-6 American Bldg.  
CLEVELAND 15, Ohio  
1010 Euclid Ave.  
COLUMBUS 1, Ohio  
2-15th Ave.  
DALLAS 2, Tex.  
1213 Texas Bank Bldg.  
DAYTON 2, Ohio  
3rd National Bldg.  
DENVER 4, Colo.  
1304 Cherokee St.  
DES MOINES 8, Iowa  
404A Shops Bldg.  
DETROIT 2, Mich.  
632 Fisher Bldg.  
DULUTH 2, Minn.  
408 Christie Bldg.  
EVANSVILLE 8, Ind.  
611 Court Bldg.  
FORT WAYNE 6, Ind.  
3001 Fairfield Ave.  
GRAND RAPIDS 2, Mich.  
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GREENVILLE, S. C.  
Conway Bldg.  
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1909 Travis St.

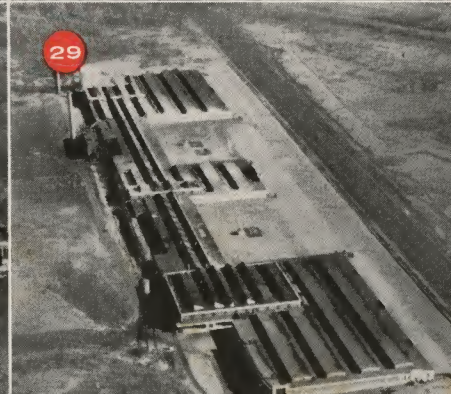
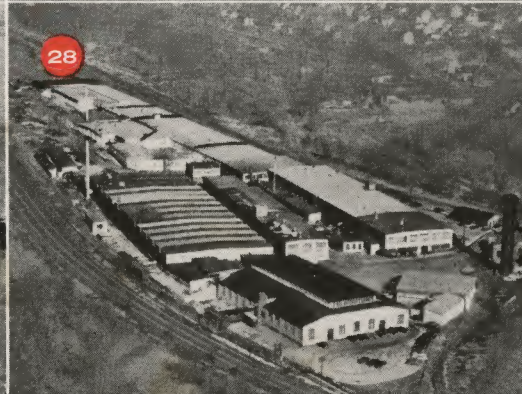
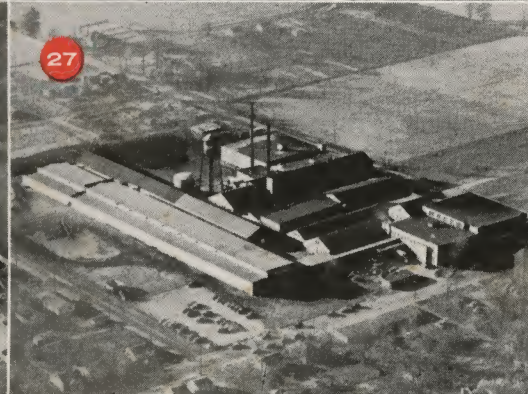
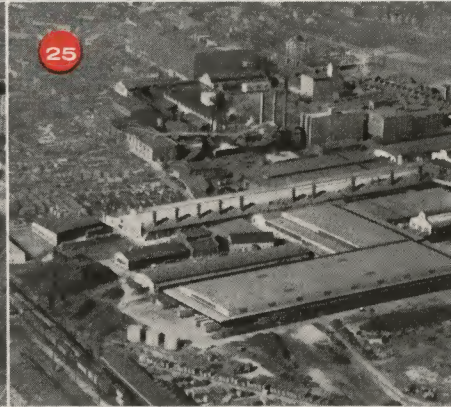
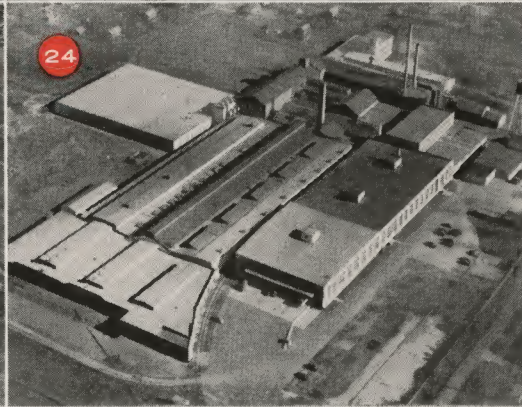
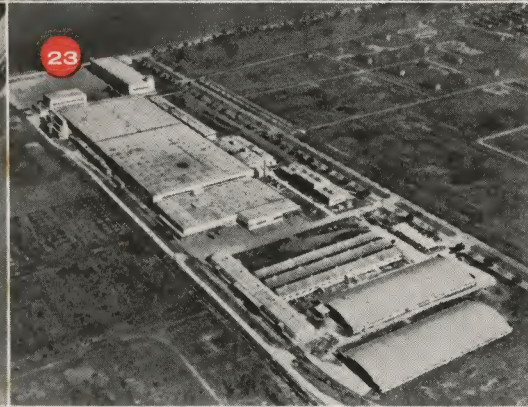
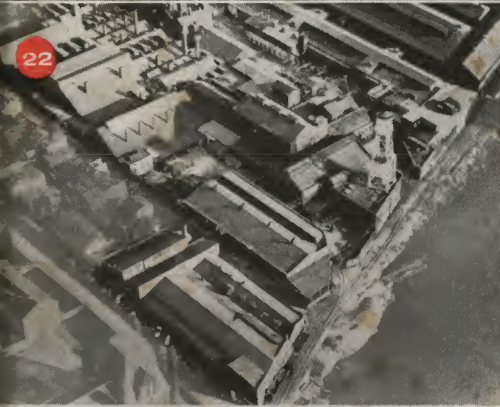
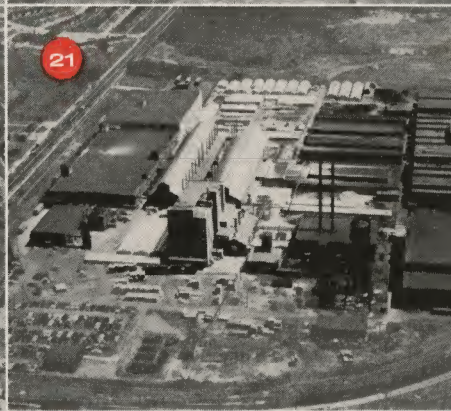
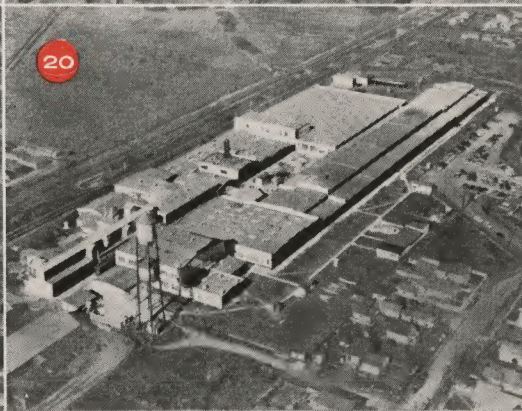
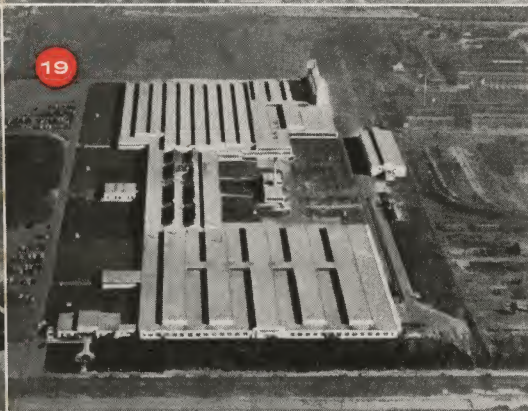
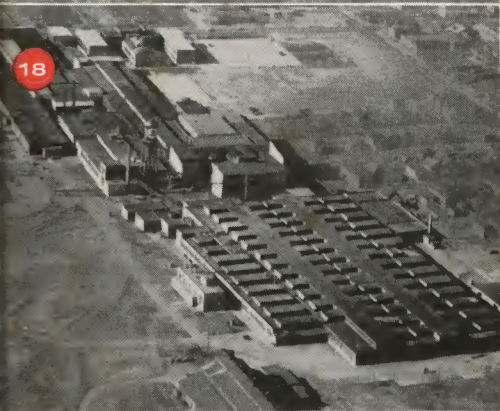
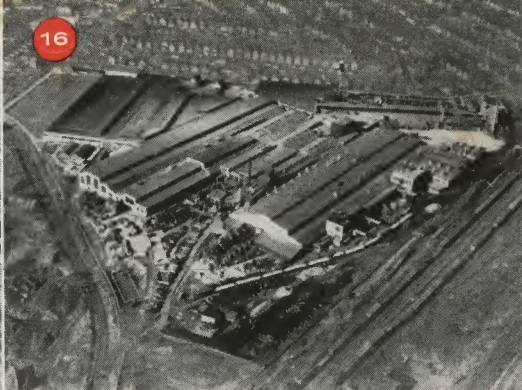
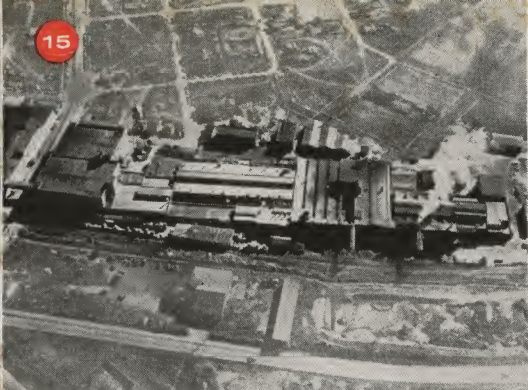
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JACKSON 4, MISS.  
2902 Oak Forest Dr.  
JACKSONVILLE 7, Fla.  
1201 San Marco Blvd.  
KANSAS CITY 5, Mo.  
330 Dwight Bldg.  
KNOXVILLE 16, Tenn.  
1301 Hannah St.  
LOS ANGELES 17, Calif.  
506 Architects Bldg.  
LOUISVILLE 2, Ky.  
1622 Heyburn Bldg.  
MILWAUKEE 3, Wis.  
231 W. Wisconsin Ave.  
MINNEAPOLIS 3, Minn.  
84 So. 10th St.  
NASHVILLE 5, Tenn.  
1805 Hayes St.  
NEW HAVEN 18, Conn.  
2315 Whitney Ave.  
NEW YORK 18, N. Y.  
39 W. 39th St.  
NEWARK 2, N. J.  
1060 Broad St.  
OKLAHOMA CITY, Okla.  
703 Leonhardt Bldg.  
OMAHA 2, Neb.  
305 Patterson Bldg.  
PEORIA, Ill.  
517 Comm. & Nat'l Bank Bldg.  
PHILADELPHIA 3, Pa.  
1617 Pennsylvania Blvd.  
PHOENIX, Ariz.  
132 So. Central Ave.  
PITTSBURGH 22, Pa.  
441-443 Oliver Bldg.

PORTLAND 3, Maine  
553 Congress St.  
PORTLAND 5, Ore.  
445 Pittock Block Bldg.  
READING, Pa.  
230 No. 5th St.  
RICHMOND 20, Va.  
2317 W. Broad St.  
ROCHESTER 4, N. Y.  
919 Sibley Tower Bldg.  
ROCK ISLAND, Ill.  
1800 Third Ave.  
ST. LOUIS 1, Mo.  
611 Oliver St.  
SACRAMENTO, Calif.  
SALT LAKE CITY, Utah  
503 Deseret Bldg.  
SAN ANTONIO 5, Tex.  
216 K-W Bldg.  
SAN FRANCISCO 5, Calif.  
625 Market St.  
SCHENECTADY 5, N. Y.  
511 State St.  
SOUTH BEND 1, Ind.  
402 Lafayette Bldg.  
SYRACUSE 2, N. Y.  
Room 407, Syracuse-Kemper Bldg.  
TOLEDO 13, Ohio  
2446 Sylvania Ave.  
TULSA 3, Okla.  
404 Wright Bldg.  
WASHINGTON 14, D. C.  
7720 Wisconsin Ave.  
WICHITA 7, Kans.  
307 1/2 Laura St.  
WILMINGTON 2, Del.  
1006 W. 24th St.  
YOUNGSTOWN 7, Ohio  
208 Wagner Bldg.

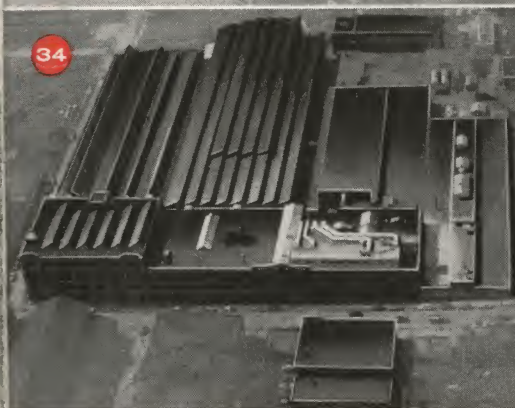
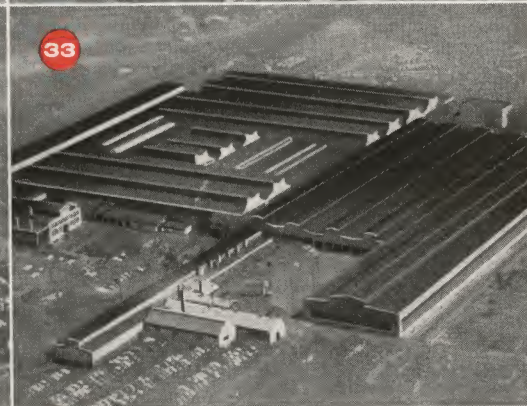
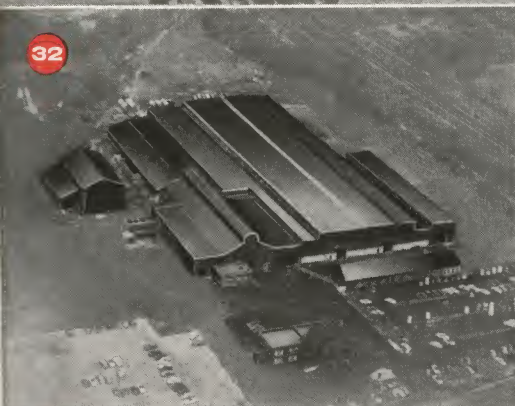
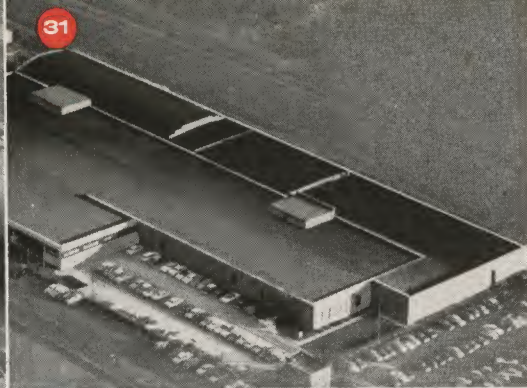












**AMERICAN-Standard**

**Tonawanda Iron Division**

**1** No. Tonawanda, N.Y.

**C. F. Church Division**

**2** Holyoke, Mass.

**3** Brattleboro, Vt.

**4** Monson, Mass.

**Kewanee Boiler Division**

**5** Kewanee, Ill.

**6** Lebanon, Pa.

**Ross Heat Exchanger Division**

**7** Buffalo, N.Y.

**Detroit Controls Division**

**8** Detroit, Mich.

**9** Detroit, Mich.

**10** Bridgeport, Conn.

**30** Norwood, Mass.

**American Blower Division**

**11** San Leandro, Cal.

**12** Columbus, Ohio

**13** Dearborn, Mich.

**Air Conditioning Division**

**14** Elyria, Ohio

**Plumbing and Heating Division**

**15** Richmond, Cal.

**16** Buffalo, N.Y.

**17** Bayonne, N.J.

**18** Buffalo, N.Y.

**19** Torrance, Cal.

**20** San Pablo, Cal.

**21** Baltimore, Md.

**22** Pittsburgh, Pa.

**23** New Orleans, La.

**24** Tiffin, Ohio

**25** Louisville, Ky.

**27** Kokomo, Ind.

**29** Trenton, N. J.

**31** Cincinnati, Ohio

**Youngstown Kitchens Division**

**26** Blue Island, Ill.

**28** Dover, N. J.

**32** Warren, Ohio

**33** Warren, Ohio

**34** Salem, Ohio

**35** Salem, Ohio





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